CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, December 14, 1905.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Dec.				
*15	Irrigation canals	Billings, Mont.	P. & S.	11-23
*15	Telephone system	Billings, Mont.	P. & S.	11-23
*15	Water & sewer sys.	Parral, Mex.	S.	12-14
16	Dredging, filling	Phila., Pa	S.	12- 7
*18	Gas producer	Winnipeg, Man.	S.	11-16
*18	Pumping engines	Cleveland, O.	S.	12- 7
20	Brick bldg.	Bremerton, Wash.	S.	12-17
*29	Irrigation canal	S. F'ncisco, Cal.	P. & S.	11-23
*	Steel rolled beams	New York	S.	10-12
Jan.				
*2	Water system	Manila	P. & S.	9-21
*4	Garbage crem't'y	Lexington, Ky.	S.	11-30
*12	Sewer system	Manila	P. & S.	9-21
*15	Irrigation canal	Billings, Mont.	P. & S.	12- 7
16	Pipe sewers	Boston, Mass.	S.	11-23
Apr.				
*2	Port works	Chile	P. & S.	5- 4
5	Wharves	Manila, P. I.	P. & S.	12-14

*Work advertised in Engineering News.

NOTE—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Dec. 16. Electric plant, Brazil ..... Nov. 9
Dec. 18. Gas plant, Winnipeg, Man ..... Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Jan. 5. Electric wiring, Washington, D .C ..... Dec. 7
Jan. 5. Park lighting, Milwaukee, Wis ..... Dec. 7
No date. Gas plant, Mains, Elkader, Ia ..... Dec. 14

BRIDGES.

Dec. 14. Bridges, Canton, S. Dak ..... Dec. 7
Dec. 14. Bridges, Edina, Mo ..... Dec. 7
Dec. 15. Bridge, Milwaukee, Wis ..... Nov. 23
Dec. 18. Bridge, steel, Wilson, N. C ..... Nov. 30
Advertised, Eng. News, Nov. 30 and Dec. 7.
Dec. 18. Bridge, Oklahoma, Okla ..... Nov. 30
Dec. 19. Bridge, Cambridge, O ..... Nov. 30
Dec. 19. Abutments, Cambridge, O ..... Dec. 7
Dec. 19. Two bridges, Ogallala, Neb ..... Dec. 14
Dec. 20. Bridge, Knoxville, Tenn ..... Dec. 7
Dec. 21. Bridges, Paxton, Ill ..... Dec. 14
Dec. 21. Bridge, Woodbury, N. J ..... Dec. 14
Dec. 22. Bridge, Carlisle, Pa ..... Dec. 7
Dec. 27. Bridge, Norristown, Pa ..... Dec. 7
Dec. 28. Bridges, Redfield, S. Dak ..... Dec. 14
Dec. 28. Two bridges, Richmond, Ind ..... Dec. 14
Dec. 29. Bridge, Kilbourn, Wis ..... Dec. 14
Jan. 1. Steel bridge, Pensacola, Fla ..... Sept. 28
Jan. 1. Bridge, steel, Pensacola, Fla ..... Nov. 2
Jan. 2. Steel bridge, Duluth, Minn ..... Nov. 30
Jan. 2. Bridge, Manitowoc, Wis ..... Dec. 14
Jan. 4. Bridges, Salem, Mass ..... Dec. 7
Jan. 9. Steel bridge, Chattanooga, Tenn ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Jan. 9. Bridges, Brookings, S. Dak ..... Dec. 14
Jan. 23. Bridge, Belgium ..... Nov. 2

BUILDINGS.

Dec. 14. School, Humboldt, Tenn ..... Nov. 9
Dec. 15. Bank building, Conway, S. C ..... Nov. 23
Dec. 15. Stable, Ft. Meade, S. Dak ..... Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 16. Building, Lincoln, Neb ..... Nov. 30
Dec. 18. Building, Ft. Leavenworth, Kan ..... Nov. 30
Dec. 18. School, Hasbrouck Heights, N. J ..... Dec. 7
Dec. 18. Heating and ventilating, N. York, N. Y. Dec. 14
Dec. 19. County buildings, Savannah, Ga ..... Dec. 14
Dec. 20. School, Sanford, N. C ..... Nov. 23
Dec. 20. Experiment station, Annapolis, Md ..... Nov. 16
Dec. 20. Convenience Station, Washington, D. C. Dec. 7
Advertised, Eng. News, Nov. 30 and Dec. 7.
Dec. 20. Fire station, Kansas City, Mo ..... Dec. 14
Dec. 20. Public bath, Brooklyn, New York ..... Dec. 14
Dec. 21. Electric wiring, Rome, N. Y ..... Dec. 14
Advertised, Eng. News, Dec. 14 and 21.
Dec. 21. Building wing, New York, N. Y ..... Dec. 14
Dec. 21. Office building, Philadelphia, Pa ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Dec. 22. Heating, etc., Prescott, Ariz ..... Nov. 30
Dec. 26. Hospital, New York, N. Y ..... Dec. 14
Dec. 26. School, Toledo, O ..... Dec. 14
Dec. 30. Stable, Fort Assinniboine, Mont ..... Dec. 7
Advertised, Eng. News, Dec. 7 to Jan. 4.
Jan. 1. Court-house, Kentland, Ind ..... Dec. 14
Jan. 2. Buildings, Riverside, Cal ..... Nov. 30
Jan. 4. Post-office, Natchitoches, La ..... Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Jan. 4. Library, Bloomington, Ind ..... Nov. 23
Advertised, Eng. News, Nov. 23.
Jan. 5. Electric systems, Washington, D. C .... Dec. 7
Advertised, Eng. News, Dec. 7 to Jan. 11.
Jan. 5. Heating system, etc., Washington, D. C. Dec. 7
Advertised, Eng. News, Dec. 7 to Jan. 11.
Jan. 5. Heating, etc., Washington, D. C ..... Nov. 30
Jan. 5. Elevators, Washington, D. C ..... Dec. 14
Advertised, Eng. News, Dec. 14 to 28.
Jan. 5. Steam heating, Laramine, Wyo ..... Dec. 14
Advertised, Eng. News, Dec. 14 and 21.
Jan. 8. Glazing, etc., Washington, D. C ..... Dec. 14
Advertised, Eng. News, Dec. 14 to Jan. 4.
Jan. 10. Post-office, Reno, Nev ..... Nov. 16
Jan. 15. Building, So. McAlester, Ind. T ..... Nov. 23
Jan. 31. Library plans, Toronto, Ont ..... Nov. 23

WATER SUPPLY AND IRRIGATION.

Dec. 14. Sluice Gates, etc., Richmond, Va ..... Dec. 7
Dec. 15. Tank, mains, Sleepy Eye, Minn ..... Dec. 7
Dec. 15. Tank and tower, Lovington, Ill ..... Nov. 30
Dec. 15. Well, Kirkwood, Ill ..... Nov. 30
Dec. 15. Irrigation canal, etc., Billings, Mont. ... Oct. 19
Advertised, Eng. News, Oct. 19 to Dec. 14.
Dec. 18. Water and light plant, Abbeville, La. ... Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 14.

If you want to sell any of your plant, advertise it in ENGINEERING NEWS. Other contractors may be ready for work where they can use it. Don't keep your money tied up in idle equipment.

Dec. 18. Pumping engine, Cleveland, O ..... Nov. 30
Advertised, Eng. News, Nov. 30.
Dec. 19. Pipe, etc., Ritzville, Wash ..... Dec. 14
Dec. 19. Filtration plant, Troy, N. Y ..... Dec. 14
Advertised, Eng. News, Dec. 14.
Dec. 20. Water-works, Prescott, Wash ..... Dec. 14
Dec. 21. Pumping machinery, Fort Wayne, Ind. .. Dec. 14
Dec. 21. Mains, grading, etc., Avalon, N. J ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Dec. 22. Boilers in pumping station, Chicago, Ill. Dec. 14
Dec. 22. Water mains, New York, N. Y ..... Dec. 14
Dec. 29. Irrigation canal, San Francisco, Cal. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 28.
Dec. 30. Pumping engine, Washington, D. C ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Jan. 2. Water-works, Philippines ..... Sept. 21
Advertised, Eng. News.
Jan. 15. Irrigation canal, Billings, Mont ..... Dec. 7
Advertised, Eng. News, Dec. 7 to 18.
Jan. 15. Water and sewer system, Parral, Mex. . Dec. 14
Advertised, Eng. News, Dec. 14.
No date. Water meters, Delphi, Ind ..... Dec. 7
Advertised, Eng. News, Dec. 7.

SEWERAGE.

Dec. 14. Sewers, Cleveland, O ..... Dec. 7
Dec. 16. Pipe sewers, Boston, Mass ..... Nov. 23
Dec. 16. Sewers, Huntington, W. Va ..... Dec. 14
Dec. 18. Sewage plant, Fort Oglethorpe, Ga ..... Nov. 30
Advertised, Eng. News, Nov. 30 to Dec. 21.
Dec. 18. Sewer system, Kincardine, Ont ..... Dec. 7
Dec. 18. Pipe sewers, Petersburg, Va ..... Dec. 7
Dec. 19. Pipe sewer, Independence, Kan ..... Nov. 23
Dec. 20. Trunk sewer, South Bend, Ind ..... Dec. 7
Dec. 20. Sewerage, etc., Bristol, Pa ..... Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Dec. 21. Sewers, water mains, Muskogee, Ind. T. Nov. 30
Dec. 27. Sewers, drains, Cincinnati, O ..... Dec. 7
Dec. 28. Sewer, Napoleon, O ..... Dec. 14
Dec. 30. Concrete sewer, Waterbury, Conn ..... Dec. 14
Jan. 12. Sewer system, Philippines ..... Sept. 21
Advertised, Eng. News.
Jan. 15. Trunk sewer, Washington, D. C ..... Dec. 14
Advertised, Eng. News, Dec. 14 and 21.

STREETS AND ROADS.

Dec. 14. Paving, Lakewood, O ..... Nov. 30
Dec. 18. Paving, Sherman, Tex ..... Dec. 7
Dec. 18. Grading, Perth Amboy, N. J ..... Dec. 7
Dec. 18. Pavinf, Syracuse, N. Y ..... Dec. 14
Dec. 18. Paving sidewalks, Montgomery, Ala .... Dec. 14
Dec. 19. Sidewalks, Cincinnati, O ..... Dec. 7
Dec. 21. Street grading, etc., Avalon, N. J ..... Dec. 14
Dec. 21. Paving, Buffalo, N. Y ..... Dec. 14
Dec. 28. Paving, Little Rock, Ark ..... Dec. 14
No date. Paving material, Lynchburg, Va ..... Dec. 14
Advertised, Eng. News, Dec. 14.

MISCELLANEOUS CONTRACTS.

Dec. 15. Telephone system, Billings, Mont ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 14.
Dec. 15. Railways, Philippines ..... Sept. 21
Dec. 15. Fire engine, Superior, Wis ..... Nov. 30
Dec. 15. Fire alarm system, Seymour, Ind ..... Nov. 30
Dec. 15. Ditch work, Babcock, Wis ..... Dec. 7
Dec. 15. Riprap, New York, N. Y ..... Dec. 7
Dec. 16. Dredging, filling, Philadelphia, Pa ..... Dec. 7
Dec. 18. Metal work, Philadelphia, Pa ..... Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 18. Chanoine wickets, Pittsburg, Pa ..... Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 21.
Dec. 18. Plows, eveners, etc., Washington, D. C. . Dec. 7
Dec. 18. Levee, Sacramento, Cal ..... Dec. 14
Dec. 18. Fire hose, New York, N. Y ..... Dec. 14
Dec. 19. Broken stone, New York, N. Y ..... Dec. 14
Dec. 20. Brick Tunnel, Milwaukee, Wis ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Dec. 21. Iron, lumber, etc., New York, N. Y .... Dec. 14
Dec. 21. Top soil, New York, N. Y ..... Dec. 14
Dec. 21. Fire alarm boxes, New York, N. Y ..... Dec. 14
Dec. 22. Dredging, etc., Richmond, Va ..... Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 21.
Dec. 26. Machine, pipe, etc., Washington, D. C.. Nov. 30
Dec. 26. Machine tools, etc., Washington, D. C.... Nov. 30
Dec. 27. Lock, dams, wall, Chicago, Ill ..... Nov. 2
Advertised, Eng. News, Nov. 2.
Dec. 27. Excavation, Brooklyn, N. Y ..... Dec. 14
Dec. 28. Grading, C., C. C. & St. Louis Ry ..... Dec. 14
Dec. 29. Wharf, Fort Monroe, Va ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 21.
Dec. 29. Wharf, Fort Monroe, Va ..... Nov. 30
Jan. 1. Statue, Indianapolis, Ind ..... July 20
Advertised, Eng. News, July 20.
Jan. 2. Railway, Chile ..... Aug. 26
Advertised, Eng. News, Nov. 9 to Dec. 28.
Jan. 3. Conduit railway, San Francisco, Cal .... Dec. 14
Jan. 6. Caisson, Charleston, S. C ..... Dec. 14
Jan. 4. Garbage crematory, Lexington, Ky .... Nov. 30
Advertised, Eng. News, Nov. 30 to Dec. 28.
Jan. 9. Wharf work, New Zealand ..... Nov. 2
Jan. 8. Dredging, Jacksonville, Fla ..... Dec. 14
Advertised, Eng. News, Dec. 14 to Jan. 18.
Jan. 8. Garbage crematory, Fort Barrancas, Fla. Dec. 14
Jan. 9. Machine tools, Washington, D. C ..... Dec. 14
Jan. 12. Ditch work, Glencoe, Minn ..... Nov. 30
Jan. 15. Excavation, Buffalo, N. Y ..... Dec. 7
Advertised, Eng. News, Dec. 7 to 14.
Jan. 31. Tunnel, Guanapuato, Mex ..... Dec. 14
Apr. 5. Wharves, Manila, P. I ..... Dec. 14
Apr. 2. Port works, Chile ..... May 4
Advertised, Eng. News, May 4, 1905 to Apr. 1, 1906.
May 1. Steel dock, Chile ..... Nov. 9
No date. Filling, Far Rockaway, N. Y ..... Dec. 14
Advertised, Eng. News, Dec. 14.
No date. Railroad grading, etc., Tidewater Ry. . Dec. 14
Advertised, Eng. News, Dec. 14 to 28.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATCHISON, TOPEKA & SANTA FE.—We are advised by James Dun, Ch. Engr. Santa Fe system, that so far on the Eastern Railway of New Mexico rail has been laid as follows: From Belen to Abo Canyon, mile post 19.5 to mile post 42, 21.5 miles. Abo Summit to Willard, mile posts 57 to 74, 17 miles. Willard is the crossing of the Santa Fe Central. From Montencino east to Llano Junction, mile posts 113 to 126.5, 13.5 miles. From Taiban to Texico, mile post 214 to 270, 56 miles. Total 108 miles laid in 1905. 142 miles will be laid in 1906.

BALTIMORE & OHIO.—It is reported that the B. & O. R. R. Co. has awarded contract to the McLEAN CONTRACTING CO., Maryland Trust Bldg., Calvert and German Sts., Baltimore, Md., for the construction of pier at its terminal at Locust Point, which is to be 169 × 975 ft., concrete foundation on pilin; shed to be two stories, steel construction, corrugated-iron sides, slag roof, steel rolling doors, skylight, metal frames and sashes. Cost, about $500,000. D. D. Carothers, Mt. Royal Station, Baltimore, Md., is Ch. Engr.

BUFFALO, LAKE ERIE & NIAGARA RIVER.—This company has made application to State Board of Railroad Commissioners for charter. The company was incorporated last June with a capital of $4,000,000 for the construction of an independent connecting railroad between Lake Erie at or ner Bay View, extending through West Seneca, Cheektowaga and Amherst, thence westerly through the town of Tonawanda to Niagara River, with a line extending along the river front to the city of Tonawanda, and a parallel line some distance back from the river so as to afford much-needed facilities for factory sites, and a third line running southerly to International Bridge. The officers of the company are: Edward Michael, Pres.; John N. Scatcherd, first vice-Pres.; S. B. Franchot, second vice-Pres.; Harlow C. Curtiss, Secy., and John C. Conway, Treas. These officers, together with Edward L. Koons, Henry C. Howard, James N. Thompson and Robert B. Adam constitute the board of directors. Bushnell & Metcalf are the Attorneys for the new company.

COLORADO, OKLAHOMA CENTRAL & NEW ORLEANS.—A prospectus issued by the United States Construction Co., with general offices in the Shukert Bldg., Kansas City, Mo., states that the object of the company is the construction of a trunk line between Colorado and New Orleans, La., to be known as the Colorado, Oklahoma Central & New Orleans Railroad, according to the "Railway Age." The construction is to be carried on under the charter of three companies, as follows: Guthrie, Fairview & Western, from Guthrie, Okla., via Kingfisher, to a connection with the Kansas City, Mexico & Orient at or near Fairview, in Woods County, Okla., with a branch from a point at or near Kingfisher to Oklahoma City, a total distance of about 140 miles, including the Guthrie and Oklahoma City terminals; the Guthrie, Shawnee & Shreveport, from Guthrie, Okla., southeast, via Shawnee, Okla., South McAlester, Ind. T., Paris, Mount Pleasant and Jefferson, Tex., to Shreveport, La., about 390 miles; the Colorado, Oklahoma Central & New Orleans, to build or acquire trackage rights from Denver to Trinidad, Colo., about 200 miles, and to build thence southeast through the counties of Las Animas and Baca, Colo., Union County, N. Mex., and Beaver, Woodward, Day, Dewey, Blaine and Woods Counties, Okla., to a connection with the Kansas City, Mexico & Orient and the Guthrie, Fairview & Western, in the southern part of Woods County or the northern part of Blaine County, a distance of about 350 miles. The latter company will take over by purchase, lease or otherwise, the lines of the Guthrie, Fairview & Western and the Guthrie, Shawnee & Shreveport, and will make trackage arrangements with roads now in operation between Shreveport and New Orleans, La., or establish lines of steamships between those cities. The company also proposes to control and operate a line of steamships between New Orleans and Havana, Cuba, and other West India ports. The capitalization is as follows: Guthrie, Fairview & Western stock $13,500,000, bonds $3,500,000; Guthrie, Shawnee & Shreveport, stock $9,000,000, bonds $9,000,000; Colorado, Oklahoma Central & New Orleans, stock $20,000,000, bonds $20,000,000; total stock $42,500,000, total bonds $32,500,000. The United States Construction Co. will own the entire capital stock, and bonds to the amount of $16,000,000. Preliminary surveys have been made over almost the entire route. Final surveys have been made for about 300 miles of the line and the right of way has been secured. Contracts have been let for grading the road from Darrow to Fairview, Okla., and from Darrow to Kingfisher. The grading between Darrow and Fairview is well under way, and it is expected that the tracks will be laid and trains running on this part of the line within a few months. Construction will begin in Colorado, Texas and Louisiana, as well as in Oklahoma and the Indian Territory, as rapidly as traffic arrangements with other roads and terminals in the important cities are contracted for. The officers of the United States Construction Co. are: W. S. McCaull, Pres. and Treas.; J. G. Trimble, first vice-Pres.; Horace Speed, second vice-Pres. and L. Underwood, Secy., all with headquarters at Kansas City, Mo. The road will be known as the "West India Short Line."

CANADIAN NORTHERN.—Company has made financial arrangements to secure $6,000,000. It is said that early next spring construction will be begun on the proposed line from Port Arthur to Montreal, Que.

CANADIAN PACIFIC.—E. T. Wilkie, C. E., is making surveys for a branch of the C. P. R. to be constructed between Carleton Place, Ont., and Sharbot Lake.

CACHE VALLEY.—E. W. Culver, Pres., Sedgwick, Ark., has announced that the contract for building the extension from Walnut Corner to Wolcott, Ark., six miles, has been let and that work is in progress. H. A. Culver, Sedgwick, Ark., is Ch. Engr.

CINCINNATI, NEW ORLEANS & TEXAS PACIFIC.—G. B. Nicholson, Ch. Engr., Cincinnati, O., states that this road will not be double-tracked from Somerset, Ky., to Oakdale, Tenn., as noted on Nov. 30, but that a second track is to be built from Flat Rock, Ky., to Helenwood, Tenn., 30 miles. The contract for 11 miles, from Flat Rock to Pine Knott, has been awarded to OLIVER BROS. & CALLAWAY, of Knoxville, Tenn., as previously noted. Contracts for the remaining 19 miles will be let soon.

CUMBERLAND RIVER & NASHVILLE.—This company may build a line in Tennessee under the name of the Nashville & Northwestern Ry. As noted on Nov. 16, contract has been awarded for construction of first 20 miles of proposed railway from Corbin, Ky., into Tennessee which will be about 100 miles long. This 20-mile section will extend from Burnside to Monticello, Ky. S. Woodward, Carlisle Bldg, Cincinnati, O., is Pres.

COLUMBUS & LAKE MICHIGAN.—D. W. Seitz, Engr., of Ottawa, O., is running a survey for the C. & L. M. for an extension from Lima to West Mansfield, Peoria and Columbus. C. T. Hobart is Gen. Mgr., at Lima, O. Company now operates 42 miles and it is planned to construct 50 miles additional. E. C. Smith, 33 Wall St., New York City, is Pres.

DENVER & BEAVER VALLEY.—The Chicago, Burlington & Quincy Ry. Co. has incorporated a subsidiary company in Colorado, under the name of the Denver & Beaver Valley Ry. for the purpose of extending its line to Pueblo, Colo., from a point on its St. Francis branch line in Kansas, down the Republican River. The branch will give the Burlington its own tracks from the iron mines of the Colorado Fuel & Iron Co. near Guernsey, Wyo., to the steel plant at Pueblo. The Beaver Valley Co. will also build 100 miles of track from Oberlin, Kan., to Wray, Colo., to save a "back haul" on freight originating on the St. Francis and Oberlin branches. These branch lines extend southward from the main tracks. The new trackage will connect both ends of the branch roads with the main line. Capital stock is $400,000. I. S. P. Weeks is Engr., at Lincoln, Neb.

DULUTH & IRON RANGE.—It is reported that company will expend fully $500,000 in extensions to its machine and repair shops, electric light plant and the building of a new coal dock. A tank shop, 80 × 144 ft., will have four tracks and be equipped with two 20-ton traveling cranes, as well as modern machinery for the work required. The work will be undertaken this winter. R. Angst, Duluth, Minn., is Ch. Engr.

FLORIDA RY.—The work of a permanent survey for the extension of the Florida Ry. from Live Oak to Fernandina, Fla., is now under way, and the indications at present point to the completion of the road as far as White Springs, a distance of about 25 miles, by Jan. 1st. T. P. Alston is Supt., at Live Oak, Fla.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—We are advised that bids will be received until Dec. 28, noon, by Wm. M. Duane, Supt., Cincinnati, O., on grading as follows: St. Louis Division: Double-track roadbed for grade reduction from Indianapolis to Delmar, Ind., 1,370,000 cu. yds. Double-track roadbed for relocation Delmar, Ind., to Lena, Ind., 2,275,000 cu. yds. Cincinnati Division: Double-track roadbed for relocation Middletown to Miamisburg, O., 600,000 cu. yds.

ERIE R. R.—We are informed that BURKE BROS., of Scranton, Pa., were awarded contract on Dec. 5 for construction of the Columbus & Erie extension from Lakewood to Niobe, N. Y. J. G. WHITE & CO., 43 Exchange Pl., New York City, were awarded the contract from Niobe, N. Y., to Columbus, Pa. Each section is ten miles long. Est. cost is $500,000.

GUTHRIE, FAIRVIEW & WESTERN.—This company, which is now building westward from Guthrie, Okla., toward Denver, has let the contract to JOHN HARTSHORN, of Guthrie, Okla., to construct the first 25 miles of the road west of Fairview, where it crosses the Kansas City, Mexico & Orient main line. The final survey is northwest from Fairview through the Persimmon Valley to Woodward, Fort Supply, May and westward through Beaver County.

GULF, HARRISBURG & SAN ANTONIO.—Sub-contractors are wanted by W. O. ROBERTSON, Chief Contractor, at Stockdale, Tex., for grading work on the Stockdale-Cuero extension.

GEORGIA, FLORIDA & ALABAMA.—Contract for building an extension from Cuthbert to Columbus, Ga., will be awarded, it is reported, to B. H. HARDAWAY, of Columbus, Ga.

NASHVILLE & HUNTSVILLE.—J. H. Connor, Pres. and Gen. Mgr., Steger Bldg., Nashville, Tenn., informs us that this company will let the contract for the work of the first division, from Huntsville to Nashville, in January, 1906. There are now on the first division four corps of engineers locating and cross-sectioning the road for contractors. The first section, consisting of 115 miles, will not be let as a whole but will be let in sections of five, ten and 20 miles. There are many contractors going over this line and submitting their bids for the work. The second division, consisting of 120 miles, will be let later on. The third division of 115 miles is almost complete and tracklaying is going rapidly forward. This road will be completed in its entirety in the next 18 months, and will extend from Nashville, Tenn., to Pensacola, Fla. There is one tunnel on this work, some very heavy grading and considerable masonry. J. L. Shorter is Secy. Noted on Nov. 16 in Engineering News.

OKLAHOMA CENTRAL.—A mortgage has been filed by this company to secure $10,000,000 of bonds to build its proposed line from Chickasha, Ind. T., to Paris, Tex. It will also connect Purcell, Byars, Ada and Lehigh. Dorset Carter is Pres., at Purcell, Ind. T. Noted on Nov 23. Of the total amount $2,640,000 will be used to build a railroad from Lehigh to Chickasha and $7,360,000 to buy rolling stock and terminal facilities.

PORTLAND-OREGON SEACOAST.—Company has been incorporated in Oregon, it is reported, to build four lines of railroad, the first from North Portland to Tillamook City; the second from East Portland to Nestucca Beach and thence along the coast to Eureka, Cal.; the third from South Portland to Nehalem, on a different route from the first road, and the fourth from Astoria to Jewell, Tillamook County. Capital stock, $500,000. Incorporators: C. H. Wheeler, John Stewart and William Reid. Headquarters are to be at Portland, Ore.

PITTSBURG & LAKE ERIE.—Company will soon begin work on long-contemplated improvements at Glassport, Pa., it is reported. The work at this place embraces the erection of round houses, machine shops, fan houses, ash pits, coaling docks, reading rooms and storage yards, costing over $300,000.

SOUTH CAROLINA.—The Charleston, S. C., "News" states that the Excelsior Granite Co., which is operating the Strait quarry in Lancaster County, S. C., has made arrangements to build a branch railroad from its plant to Heath Springs, S. C., six miles distant, connecting with the Southern Ry.

SEABOARD AIR LINE.—The contract for building the Boca Grande extension of the Seaboard Air Line has been let to Capt. C. H. DAVIS, of Manatee, Fla. The extension will be built from Fruitville, Fla., south of Sarasota, to the south end of Casparilla Island, at Boca Grande inlet to Charlotte Harbor, a distance of about 50 miles.

SOUTH & WESTERN.—Company has applied for a charter in North Carolina to permit the building of its extension from Marion, N. C., to Spartanburg, S. C. M. J. Caples is Gen. Mgr. and Ch. Engr., at Bristol, Tenn. In October we were informed that the CAROLINA COMPANY had been awarded the general contract for 300 miles of additional railway at from $100,000 to $125,000 a mile. The line will be 300 miles long, extending from Elkhorn, Ky., to St. Paul, Va., Kingsport, Tenn., Marion, N. C., and Spartanburg, S. C. As noted on Nov. 2, S. WALTON, of Falls Mills, Va., has contract for 12-mile section. J. E. RODES & CO., of Knoxville, are reported to have been granted contract for a 50-mile section from Virginia into Tennessee.

TEXAS. — KENEFICK, HAMMOND & QUIGLEY CONSTRUCTION CO., Beaumont, Tex., will let 300 miles of grading between Baton Rouge, La., and Houston, Tex., one year's work. Will let it in quantities to suit any sized outfit. Free transportation on outfits from any point on the Kansas City Southern Railroad and over the said line of the St. Louis, Iron Mountain & Southern Railroad. Profiles and full information can be had at their office in Beaumont, Tex. Correspondence is solicited.

TEXAS, NEW MEXICO & PACIFIC.—Construction will begin by Jan. 1 on this line. We are advised capital is secured. Contract has been awarded to the ROCK ISLAND CONSTRUCTION CO., of Chicago and McKinney, Tex. Right-of-way is secured. The railway will be about 500 miles long, extending from McKinney, Tex., to Roswell, N. Mex. Jesse Shain, McKinney, is Pres.

TIDEWATER AND DEEP WATER.—MacArthur Bros. Co. is prepared to let the grading and masonry on 108 miles of the Tidewater and Deepwater Railroads, extending from Roanoke, Va., 108 miles west into West Virginia. The work is very heavy rock work, and consists of a number of short and long tunnels, heavy steam shovel work and many miles of good station work. The heavy work will last two years. The line nearly parallels the Norfolk & Western R. R. Plans, profiles, etc., may be seen at office of MacArthur Bros., 301 Terry Bldg., Roanoke, Va., profiles may be seen, and further information obtained at offices of MacArthur Bros., 810 Fisker Bldg., Chicago, Ill., or Hanover Bank Bldg., New York. (Advertised, Engineering News.) We are informed by H. Fernstrom, Ch. Engr., Norfolk, Va., that contracts have been awarded on the Tidewater and Deepwater Railways as follows: Section A—From Southern Railway crossing near Hurt, Va., westerly 20 miles, to J. G. WHITE & CO., 43 Exchange Pl., New York City. Section B—From Meherrin, Va., easterly 22 miles, to A. & C. WRIGHT & CO. and W. R. BONSAL & CO., Hamlet, N. C. Section D2—From Brookneal easterly 6½ miles, to BUTLER BROS. CONSTRUCTION CO., 1170 Broadway, New York. Section E—Brookneal, westerly 20 miles, to CARPENTER, FRAZIER, BOXLEY & CO., Clifton Forge, Va. Section F—From Southern Railway crossing near Hurt, Va., easterly 32 miles, to LANE BROS. CO., Esmont, Va. Section G—From Roanoke, easterly 23 miles, to D. A. LANGHORNE & CO., Alderson, W. Va. Sections H, I, J, K, L—From Roanoke to Bluestone River, 112 miles, to MacARTHUR BROS. CO. and ARTHUR F. MacARTHUR, Chicago, Ill. Active operations will be commenced at once, and the entire road is to be completed for operation December 1, 1907.

WESTERN PACIFIC. — The PACIFIC COAST CONST. CO., of Portland, Ore., which had the contract for grading the Western Pacific line as far as Oroville, Cal., has been sold to E. B. and A. L. Stone Co., of Oakland, Cal., it is reported.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—An electric railway will be built in Yarmouth, Cumberland, Falmouth and Portland which will be about 12 miles in length. Capital, $48,000. A company will be incorporated. E. J. Lawrence, A. B. Page, S. A. Nye and A. F. Gerald, of Fairfield, and Cyrus W. Davis, of Waterville, Me., are interested.

CHICOPEE FALLS, MASS.—We are advised that C. W. BLAKESLEE & SONS, of New Haven, Conn., have contract for an extension of the Springfield St. Ry. Co.'s line from Chicopee Falls to Ind[illegible] miles. Work is nearly com[illegible]hard, 4½ New Haven, Conn., is Eng[illegible] Ryder, work. Previously noted.

BOSTON, MASS.—Charles [illegible] Winchester, Mass., is pro[illegible]ington, of railway between Boston [illegible] Lowell, miles. The line will be bu[illegible] Boston & Lowell Interurban Co. [illegible]ister and Butler Ames, of Boston, also [illegible]ected.

PROVIDENCE, R. I.—At [illegible] meeting of the incorporators of the [illegible] Worcester and Providence Street Rail[illegible] held at room 1002 Banigan Bldg. [illegible] the following officers and direc[illegible]ere elected: President, Fred C. Hinds, Bo[illegible]; Vice-Pres., Frank W. Tillinghast, Provi[illegible]; Secy. and Treas., Charles H. Wilson [illegible]; Directors, Frank W. Tillinghast, [illegible]; Horace A. Kimball, Providence; [illegible]; R. Burlett, Burrillville; Fred L. Sa[illegible]; Jr., and Charles H. Wilson of Bo[illegible]; L. Weeks and Fred C. Hinds, all of Bo[illegible]. It is expected the road will be ru[illegible] in the latter part of 1906, [illegible] time through the towns of No[illegible] pass Smithfield, North Smithfield [illegible] evidence in Rhode Island. The locat[illegible] these towns is to be filed by [illegible].

THOMASTON, CONN.—The [illegible] Railway Co., of New Haven, [illegible] consolidated the charter rights of the Tho[illegible] taken over way Co., which was chartered [illegible] Tram- by the legislature. Edward T. [illegible] year by Thomaston, represented the Tra[illegible]field, of interests. The line will extend [illegible] Co.'s ton to Waterville, 5½ miles, [illegible] Thomas- the Connecticut Ry. & Lighting [illegible].

TORRINGTON, CONN.—We are advised by Morris C. Webster, Pres. of the Hartford & Torrington Tramway Co., New Britain, Conn., that the right-of-way has been partly secured. The survey was made for this railway four years ago. There is no immediate prospect of its construction. It will be 12 miles long, to run from Torrington to Harwinton, Plymouth and Terryville village.

NEW YORK, N. Y.—The Board of Estimate on Dec. 15 will give hearing on applications from the Union Ry. Co., 204 East 128th St.; the South Boulevard Co.; and the Interborough Rapid Transit Co., 23 Nassau St., for extensions to their surface line in Borough of Bronx. R. E. Blinning is Ch. Engr. of Union Ry. Co., at Mount Vernon, N. Y. George H. Pegram, 21 Park Row, is Ch. Engr. of Interborough Ry.

UTICA, N. Y.—The Utica & Mohawk Valley Ry. Co. has petitioned common council for authority to build a number of extensions in southeaster part of the city. C. Loomis Allen is Gen. Mgr., at Utica. A public hearing will be given on Dec. 28.

HONESDALE, PA.—The stockholders of the Honesdale-Hawley Trolley Co., organized to build a line between those two points, have organized by electing Hon. E. B. Hardenberg Pres., John Kubach, Secy. and M. B. Allen as Treas. Surveyors have been set to work laying out the route of the proposed railway.

NEWTOWN, PA.—Horace G. Reeder, of Newtown, is reported to be securing right-of-way for the proposed electric railway between Newtown and Hatboro, Pa.

WASHINGTON, D. C.—At this session of Congress the bill authorizing the construction of a street railroad in Washington by the Great Falls & Old Dominion St. Ry. Co. will be reintroduced in both the House and Senate. The route advocated along M St. from Georgetown, D. C., is the same as that proposed last year. A determined effort will be made to pass the bill.

HAGERSTOWN, MD.—We are advised that all surveys have been made and right-of-way obtained for the Hagerstown & Waynesboro Ry. It will be 12 miles long. Financial arrangements are not quite made but will be shortly. Construction will not be begun until next spring. Contracts are not yet awarded. Mayor A. C. Strite, of Hagerstown, is Pres. Company was organized to build an electric railway but motive power has not been decided upon.

WINCHESTER, VA.—H. S. Hansbrough, Pres. of the Winchester & Washington City Railway Co., according to a Baltimore report, has stated that construction of the railroad will not be taken up until after the completement of the hydraulic and electric plant on the Shenandoah River, which will not be finished probably until the latter part of May, 1906. The other officers of the company are Charles Mullikin, vice-Pres.; Shirley Carter, Secy.-Treas. S. L. Hoover is Gen. Mgr. In August this company awarded a contract to E. PURCELL & CO., of Harrisonburg, Va., at $56,322, for building its dam, power house and raceway along the Shenandoah River near Millville, W. Va. This work was advertised and fully noted in Engineering News on June 29, 1905.

STAUNTON, VA.—We are informed that right-of-way is partly secured for the Virginia Valley Traction line from Staunton to Middlebrook, eleven miles. Commissioners will appraise the balance of the right-of-way this week. Later the railway will be extended to Rockbridge Baths, 25 miles. Capital is secured. Contracts for construction work will be awarded next spring, possibly sooner. H. B. Sproul is Pres. and F. H. Lewis is Ch. Engr., at Staunton.

MIAMI, FLA.—B. B. Tatum has a franchise for a street railway at this place. It is reported that construction will begin this month or early in January. The O'Connell Construction Co. of West Chester, Pa., Thomas E. O'Connell, Pres., may be awarded construction contract.

MONTGOMERY, ALA.—The first payment of $100,000 will be made on Dec. 15, it is reported, on the purchase of the Montgomery St. Railway Co. by the Montgomery Traction Co. A system of improvements may be undertaken at once. The first may be the building of a line, 14 miles long, to Wetumpka.

CANTON, O.—We are informed that right-of-way is secured with options on terminals for the Canton, Akron & Youngstown Ry., in those three cities. It will extend from

Canton to Youngstown, via Middlebranch, Hartville, Mogadore, Akron, Deerfield, Berlin Center, etc., 66 miles. Capital is not yet secured. Royal Snyder, Canton, is Pres. The Osborne Company, Cleveland, O., is Engr.

STEUBENVILLE, O.—Engineers are securing options of necessary right-of-way between Steubenville and Canton, O., for a proposed electric railway to be built between these points. Robert Wheeler, of Steubenville, is interested.

CLEVELAND, O.—South Lorain & Eastern Traction Co., has been incorporated with an initial capital stock of $1,000. Sigmund Lederer, Arthur A. Lederer, A. B. Stuber, D. T. Mills and R. C. Linden are the incorporators.

KOKOMO, IND.—It is reported that an extension will be built by the Kokomo, Marion & Western Traction Co., from this city west to Burlington, Flora and Delphi, with the ultimate purpose of connecting with the line now building from Lafayette to Chicago. Burlington offers $35,000 in aid of the line. P. H. Palmer, Kokomo, is Consult. Engr.

ELKHART, IND.—We are advised by M. L. Swinehart, Supt. and Ch. Engr., La Grange, Ind., that the St. Joseph Valley Ry. Co. will build a 30-mile extension from La Grange to Mongo, Orland and Angola. Capital is secured. 16 miles of right-of-way are secured and seven miles are graded. Company operates electric motor cars. H. E. Buckley, 275 Michigan Ave., Chicago, is Pres.

BAY CITY, MICH.—The Detroit & Mackinac Railway Co. will build an electric line from this city to Port Huron, it is reported. H. S. Waterman, East Tawas, Mich., is Ch. Engr.

ARKANSAS CITY, KAN.—H. E. Ahrens, of Pittsburg, Pa., has secured financial backing for the Kansas & Oklahoma Interurban Ry., which plans to build a line from Winfield to Chilocco, Okla., through Arkansas City, with local systems in Winfield and Arkansas City.

HANNIBAL, MO.—We are informed that the Hannibal Ry. & Electric Co. has been granted a franchise to extend its line to the city limits, one to Ilasco and the other to Oakwood, about five miles in all. Work will be started in the spring. J. S. Mainland is Gen. Mgr., at Hannibal.

TULSA, IND. T.—A franchise for a street electric railway has been granted by the city council to Luman F. Parker, of St. Louis; George E. Johnson, of Shreveport, La.; J. M. Hall, T. E. Smiley, C. W. Brown, Frederick M. Erickste and A. R. Queery, of Tulsa. They are the present stockholders in a company incorporated to construct.

TECUMSEH, OKLA.—Dennis Flynn, of Shawnee, Okla., is interested in construction of an interurban road from Tecumseh to Oklahoma City.

CORSICANA, TEX.—A preliminary line for an electric railway is being run from Corsicana to Palestine by the engineers of the Central Texas Traction Co. J. V. Watkins, at Corsicana, is interested.

BRENHAM, TEX.—D. C. Geddings, of Brenham, is interested in building an electric line from Lagrange, Tex., to Brenham.

DOUCETTE, TEX.—The Hoo-Hoo Tram Co. has been chartered with capital stock of $25,000 to build and operate a tram railroad Incorporators, George Adams, Sr., George Adams, Jr., Leopold Adams, Arthur J. Adams, of Beaumont; John J. Culley, of Doucette.

TAYLOR, TEX.—It is said that a movement is under way to build either an electric railroad or a motor belt line from Taylor to Beyersville, Beankiss, Gano, Laneport, Elm Grove and Waterloo. Mayor John F. Blake, of Taylor, is interested. Survey may be made by C. E. Scriven, of Houston, Tex.

CENTRALIA, WASH.—The City Council has granted a 35-year franchise to the Centralia-Chehalis Electice Railway & Power Co. to operate electric cars on the streets of Centralia. The ordinance provides that active work must commence within four months and must be completed Dec. 1, 1906.

NORTH YAKIMA, WASH.—The petition of the North Yakima & Valley Railway for a right-of-way across the county roads for the Naches Valley branch has been granted by the county commissioners. The right-of-way is for the entire line from this city up the Naches Valley.

LOS ANGELES, CAL.—Under a franchise recently secured, the Pacific Electric Railway Co. will begin at once the construction of a line from Long Beach to Terminal Island, a distance of about four miles.

Right-of-way for the entire distance between Los Angeles and Covina has been obtained by the Pacific Electric Railway Co. It is announced that construction work will be begun at once. The route of the old San Gabriel Rapid Transit Railway Company will be utilized in part by the new line. The Los Angeles terminus is at Aliso St.

SAN FRANCISCO, CAL.—We are informed by Thomas P. Woodward, City Engr., that the plans and specifications of the new municipal underground conduit railroad on Geary St. and Point Lobos Ave., were submitted to the Board of Supervisors on Dec. 4, and bids were called for and ordered opened Jan. 3, 1906. The cost has been estimated at $346,104.

QUEBEC, QUE.—We are informed by Rudolph Forget, Pres. of the Quebec & Saguenay Ry., Montreal, Que., that surveys are completed for this line from Quebec to Murray Bay, along the river. Engineers are now taking surveys in the interior. Contracts will be let during the winter, not before February or March, and work is to be started early in the spring. The line will be 120 miles long. Motive power will be steam and electricity. James M. McCarthy, Quebec, Que., is Ch. Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—The Portland Lighting & Power Co. has completed plans for construction of a new power house next spring. New plant will be two stories high, 80 × 100 ft., brick. It will be equipped with machinery sufficient to generate 1,000 to 2,000 HP. It is said that the General Electric Co., at Lynn, Mass., will be awarded general equipment contract. E. H. Mather is Mgr.

PORT RICHMOND, N. Y.—Charles E. Griffith, of Port Richmond, Staten Island, according to the New York "Sun," has stated that city of New York has purchased a tract of land with 300-ft. water front at Kill von Kull and Jewett Aves., Port Richmond, Richmond Borough. This site is to be used, he states, for an electric lighting plant for municipally lighting borough streets and public buildings. George Cromwell is Borough Pres., New Brighton.

UNION, N. Y.—This village voted on Dec. 6 to issue $15,000 of bonds for erection and equipment of an electric lighting plant. Bonds will be advertised and bids will be asked for building the plant and for its equipment.

ALTOONA, PA.—The Pennsylvania Railroad Co. will erect a new power house here at Ninth Ave. and 13th St., it is reported.

MAUCHCHUNK, PA.—Contract for electric wiring and telephone systems in the American Hotel in this city has been awarded to the LEHIGH ELECTRIC CO., 128 North Seventh St., Allentown, Pa.

SHENANDOAH, VA.—A later report corrects the information from Chattanooga, Tenn., noted last week to the effect that George C. Morgan has contract for waterworks and electric lighting plant at Shenandoah. George Cadogan Morgan, 169 Jackson Boulevard, Chicago, is Designing Engr. and Engr.-in-Charge of the project.

BLUEFIELD, W. VA.—Wm. E. Fowler of Graham, Va., has applied for a charter to erect an electric light plant here.

AUGUSTA, GA.—The city council on Dec. 4 passed a resolution to investigate the advisability of the city building its own electric light plant, to be completed when the present contract expires in Aug., 1907. Nisbet Wingfield is City Engr.

ALBANY, GA.—J. H. Hegarty, of Americus, Ga., has applied for a franchise for establishing a gas works here. Mayor Lippitt may be addressed.

GRENADA, MISS.—Bonds for $30,000 may be issued for improvements to sewerage, electric lighting plant and water-works. C. B. Bolton is Supt. of municipal water and light plant.

LAWRENCEBURG, TENN.—Kirkpatrick & Johnson, Engrs., of Jackson, Miss., are reported to have been selected to prepare plans and supervise the construction of the municipal water-works and electric light plant. It will comprise a dam, turbines, dynamos of about 100 KW., pole lines, arc lamps, motor and pump, water mains and steel tank. James Dunn is City Secy.

NOBLESVILLE, IND.—We are advised that the Noblesville Hydraulic Co. is arranging to ask for bids for the completion of a dam across White Ricer, abandoned two years ago. Total cost will be $150,000. Rufus Beardsley is Ch. Engr., at Noblesville.

TERRE HAUTE, IND.—Plans have been prepared by J. F. McCulloch, of McCulloch & Co., Engrs., of St. Louis, Mo., for proposed municipal lighting plant. Estimated cost is $96,000. Noted last week.

MUSKEGON HEIGHTS, MICH.—See under Water Supply and Irrigation.

ST. LOUIS, MICH.—F. C. Henry, E. J. Hofstetter, Felix O. Melia and F. H. Bernard, all residents of St. Louis, Mich., have asked the council for a franchise to install and operate a gas plant. They ask for a 10-year franchise.

CROSWELL, MICH.—The taxpayers of the city have voted to issue bonds for $8,500 for a water-works system and $5,500 for electric lighting system and $1,000 for public improvements.

ANN ARBOR, MICH.—It is reported that the Detroit Edison Illuminating Co., representing the North-American Co., 30 Broad St., New York City, has purchased site of the water rights of the Michigan Milling Co., for $130,000. This includes three sites, at Ann Arbor, Delhi and Osborn. The North-American Company owns the Geddy's site and will here erect an immense dam for the generation of electrical power. Alex. Dow is Vice-Pres. of the Detroit Edison Co., at Detroit.

LAURIUM, MICH.—Applications for franchises in the villages of Red Jacket and Laurium for the purpose of supplying gas to the villages by a Calumet, Mich., company has been formally filed with Village Clerks Nick F. Kaiser and Peter Charrier by Kerr & Petermann, of Calumet, Mich.

KENOSHA, WIS.—Bids are being taken, it is reported, on a new municipal lighting plant for this city.

LA CROSSE, WIS.—The La Crosse Hydro-Electric Light & Power Co. has been incorporated with a capital of $1,000,000. Company has a state charter granting it rights to erect and maintain a water power plant near Black River Falls. According to Milwaukee "Sentinel," it will expend about $750,000 within a year in the construction of a dam. The current will be transmitted to La Crosse, a distance of about 55 miles. Orlando Holway, E. G. Boynton and Roy H. Bingham, all of La Crosse, are the incorporators. It is planned to develop from 12,000 to 20,000 HP.

ELKADER, IA.—Bids and estimates will be received by the Elkader Gas Co. for constructing a gasoline gas plant and for laying two or three miles of mains. M. J. Poull is Pres.

SIOUX CITY, IA.—The Sioux City Service Co., it is reported, will install a lighting and power plant in Sioux City. E. L. Kirk is Gen. Mgr.

MOUNT AYR, IA.—This town has voted to grant a franchise to the Mount Ayr Gas Co. to erect a $15,000 gas light and fuel plant. M. E. Springer, of Des Moines, Ia.; M. N. Harrison, of Osecola, Ia., F. F. Fuller, G. E. Snyder and others are interested.

WICHITA, KAN.—Geo. W. Robinson, of Wichita, has stated that he has a franchise for lighting the city with natural gas. It will have to be piped to this place from the east, a distance of about 100 miles.

OSAWATOMIE, KAN.—W. H. Murphy, Supt. and Engr., Osawatomie Electric Light & Power Co., states that it is proposed to construct an electric light plant at a cost of about $10,000. The company also will add an ice plant later. W. M. Mills is Mgr.

MISSOULA, MONT.—Bids will be received by city council on Dec. 14 for the contract for city lighting. William L. Murphy is City Clk.

JOPLIN, MO.—George Moore, A. M. Barrow, David Hoag, M. V. Hoag and others are reported to have incorporated the Consolidated Light, Power & Ice Co. with $1,000,000 capital stock to operate electric light and power plant and ice factory.

UVALDE, TEX.—The city has granted a franchise to J. F. Simpson, W. D. Kincaid and Gus Muller for the installation of an electric light plant at Uvalde.

McKINNEY, TEX.—It is reported that the Industrial Gas & Construction Co., of Chicago, which has been granted a franchise, will construct a new gas plant at McKinney soon. Noted on Nov. 16.

EL RENO, OKLA.—The El Reno Gas and Electric Co., capital $100,000, has been chartered. The directors are: M. G. Clarke, of Coldwater, Mich.; George J. Hickox and F. N. Howell, of El Reno; and H. H. Stephens, of Brookfield, Mo.; Milo D. Campbell, of Michigan, and H. T. Tarvey, of Battle Creek, Mich.

WATONGO, OKLA.—The city is reported to have voted in favor of issuing $6,000 bonds for an electric plant, and $10,000 bonds for extensions to be made to the water mains.

GEORGETOWN, COLO.—The Waldorf Mining Co., of Denver, Colo., E. J. Wilcox, Gen. Mgr., will develop water power at Georgetown. It is planned to spend $100,000.

REDCLIFF, COLO.—The Pittsburg Gold-Zinc Mining Co. will erect a power plant on Eagle River. J. W. Newell is Gen. Mgr. of the company at Breckenridge, Colo.

DENVER, COLO.—The Continental Mine, Power & Reduction Co., according to an announcement, will construct a power plant and tunnel at cost of $250,000. Capt. Henry I. Seeman, of Denver, is interested. Noted under Railways on Nov. 30, under Colorado & Southern Ry.

MONTROSE, COLO.—O. M. Clay and R. H. Washburn have been granted a 25-year franchise for erecting a gas plant here. The grantees will spend $20,000 on buildings, mains, etc., next year.

SANTA FE, N. MEX.—Congressman J. S. Southard and associates, of Toledo, O., are interested in plan to establish an electrical power plant in Santa Fe.

GARFIELD, WASH.—The city council of Garfield has granted a franchise to the Moscow Electric Light & Power Co., of Moscow, Idaho, to light the city with electricity. E. S. Aldrich is Mgr., at Moscow.

NORTH YAKIMA, WASH.—It is reported that the Northwest Light & Water Co., of North Yakima, will commence construction on its power plant about April 1, 1906. The foundation will be laid this winter. Water wheels, steam and electric equipment for 5,000 HP. will be installed. There will be ten miles of transmission line to this city. Company will build an office and transmitting building at Second and A Sts. G. C. Arrowsmith is Supt. and I. Paull is Ch. Engr., at North Yakima.

ANAHEIM, CAL.—Bids will be received by Board of Trustees until 8:30 p. m., Jan. 9, for a gas pipe-line franchise. Edward Merritt is Cy. Clk.

BANNING, CAL.—C. O. Barker, of Banning, has filed water claim in west fork of Snow Creek to extent of 4,000 ins. for development of electricity.

SANTA ANA, CAL.—Board of Trustees may call a special election for vote on proposition to issue $50,000 bonds for gas works and $60,000 bonds for an electric lighting plant.

LOMPOC, CAL.—James M. Stamp, of San Francisco, has contract to install an electric lighting plant at Lompoc.

RIO VISTA, CAL.—Bids will be received until Dec. 28 by F. J. Kalber, Town Clk., for a franchise to install, maintain and operate an electric light and power system for a term of 20 years from Jan. 1, 1906, for the purpose of selling and supplying electric light and power to this town and its inhabitants.

ELMIRA, CAL.—The Dixon Electric Power & Water Co. will install a lighting and power plant at Elmira. E. D. Lehe is Mgr., at Dixon, Cal.

LOS ANGELES, CAL.—The People's Gas Co., of Pasadena, Cal., will lay from 100 to 400 miles of steel gas mains in Los Angeles, according to a reported statement of Thaddeus S. C. Lowe, the Pres.

LONGBEACH, CAL.—An electric lighting plant may be erected by the city at a cost of $60,000.

FRESNO, CAL.—A. G. Wishom, of Fresno, has been granted a franchise to construct a power line across Tulare County.

EUGENE, ORE.—W. T. Campbell has deeded to the city of Eugene the water right recently located and pre-empted by him on the McKenzie River in the vicinity of Walterville. Frank C. Kelsey, 501 Constitution Bldg., Salt Lake City Utah, is Engr.-in-Charge.

YERINGTON, NEV.—Thomas Harris, C. W. Fancher and T. B. Gambel, all of San Jose, Cal., are interested in project to develop 5,000 HP. near Yerington.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

NORWICH, CONN.—It is reported that a new bridge will be built here in connection with the proposed trolley line.

NEW HAVEN, CONN.—The city proposes to build a bridge across the railroad tracks at Bridge St.

ITHACA, N. Y.—It is reported that Joseph Campbell will erect an iron truss bridge over Cascadilla creek from his property to Dewitt place.

BALLSTON SPA, N. Y.—The Union Bag & Paper Co., the county of Saratoga and the county of Washington, New York state, will unite in building a 1,000-ft. steel bridge to cost $60,000 between Fenimore and Sandy Hill. M. O. Kasson is Ch. Engr. of the Union Bag & Paper Co.

NEW YORK, N. Y.—Bids were opened Dec. 7, at office of Pres. Boro. Bronx, for the widening of bridge over the New York & Harlem Railroad at 177th St., as follows: M. J. Leahy, 1446 Prospect Ave., New York, $37,671; M. A. Ryan, $30,615; Milliken Bros., 11 Broadway, New York, $34,240; Cooper & Evans, 220 Broadway, New York, $35,647; Culgin-Pace Contracting Co., 787 Tremont Ave., New York, $31,204; Leslie McHart, 299 Broadway, New York, $24,719; W. J. Brennan, 759 East 173d St., New York, $32,318; Snare & Triest Co., 143 Liberty St., New York, $30,026; F. B. Smith Cont. Co., Lexington Ave. and 125th St., New York, $28,975; John Kenny, Jr., 39 Cortlandt St., New York, $22,076.

The Board of Estimate has approved the proposal to construct Hendrik Hudson Memorial Bridge, at Spuyten Duyvil, to commemorate the tri-centennial of the discovery of the Hudson River. $1,000,000 has been appropriated for the preliminary work. The total cost will reach $2,025,000. E. E. Olcott and W. M. K. Olcott presented the plans to the board and announced that they have been approved by the committee. Nelson P. Lewis, Ch. Engr. of the Board of Estimate suggested that the plans be changed so as to conform with the 84-ft. width of Claremont Viaduct, and that it be completed for the celebration in 1909.

An appropriation of $115,000 has been obtained for the completion of the bridge extending over Mosholu Parkway to Jerome Ave.

President Haffen, of the Bronx, has obtained the approval of an offer from the New York Central Railroad to construct the abutments and approaches to the Mott Ave. bridge while the city builds the bridge.

RENSSALAER, N. Y.—Plans have been drafted by the N. Y. C. & H. R. Ry. architects for a bridge over the tracks of the New York Central Railroad at Rensselaer.

BRIDGEPORT, N. J.—The drawbridge over Oldman's creek between Gloucester and Salem counties recently collapsed. A new bridge will be necessary.

WOODBURY, N. J.—Bids are asked until Dec. 21 for a new highway bridge over the Great Egg Harbor River where same is crossed by new road leading from Williamstown to Winslow. Specifications can be obtained by applying to Fred. W. George, Court House, Camden; or Charles H. Bell, Woodbury, N. J. J. J. Albertson, County Engr.

PHILADELPHIA, PA.—The Northwest Business Men's Association has approved the project of a loan to provide funds for the erection of a bridge over the Pennsylvania Railroad at 29th St., connecting Montgomery and Sedgley Aves.

ALLENTOWN, PA.—It is reported that the Lehigh Valley Transit Co. has decided to build a $300,000 bridge at Allentown.

PITTSBURG, PA.—It is reported that a new bridge is contemplated for Mellwood Ave., this city. M. C. Oskamp, is Chn. of Bridge Com.

WILMINGTON, DEL.—It is reported that a new bridge across the Brandywine at Van Buren St., Wilmington, is contemplated. It is probable that the Park Commission will join with the Water Commission on the project.

RICHMOND, VA.—It is reported that the Southern Railway Co., contemplates the erection of two bridges which will connect the island with Cory St., at 19th and 22d Sts.

SCOTTSVILLE, VA.—It is reported that the Town Council of Scottsville has considered the matter of bridging the James River near this place.

FAYETTEVILLE, N. C.—The contract for the building of the bridge over Cross Creek at Green St., has been awarded to the OSWEGO BRIDGE CO., Oswego.

ABBEYVILLE, GA.—The town of Abbeyville has voted to have a new steel drawbridge across the Ocmulgee River.

KNOXVILLE, TENN.—The construction of a viaduct across Asylum Ave. is being considered, and plans have been submitted by Edwin Thatcher of the Concrete Steel Engineering Co., 21 Park Row, New York, N. Y., for a concrete reinforced steel structure to cost about $34,500.

CHATTANOOGA, TENN.—It is reported that a new steel bridge across the Ocmulgee River is contemplated at Chattanooga.

LEXINGTON, KY.—An election was held recently and it was voted to issue $27,000 of bonds to build a viaduct across the railroad tracks at Ayres alley.

MT. VERNON, O.—It is reported that a new bridge is to be erected over the Kokosing River at Mt. Vernon. A. Wuschmer is Chn. of Com.

CLEVELAND, O.—It is reported that the site for the $2,000,000 high-level bridge is decided on. The eastern terminus will rest on Ontario St., at Hudson St., and the western at Lorain and Pearl Sts.

CINCINNATI, O.—It is reported that a new railroad bridge is contemplated at East End, Cincinnati, crossing the Ohio River to give the Chesapeake & Ohio Railroad a better entrance to the city. W. G. Rippey, Agt., for the Longworths, Cincinnati, can give information.

RICHMOND, IND.—Bids are asked by the Board of Commissioners of Wayne County, until 11 a. m., Dec. 28, for the erection of "Trotter Ford" bridge in Green Township, and "McGraw" bridge in Washington Township. John F. Dynes, C. E. Wiley and T. E. Clarke are County Comrs.

TRAVERSE CITY, MICH.—A special committee reported favorably to the Board of Public Works here for the erection of a new steel bridge on South Union St. A. E. Wilson is Chn. Com.

MARQUETTE, MICH.—It is reported that steel bridges will be erected across the Estanaba and East Branch Rivers.

BLOOMINGTON, ILL.—It is reported that the Illinois Central Railroad will replace their present steel bridges across the Kankakee River by new structures.

PAXTON, ILL.—Bids will be received by the Highway Commissioners of Patton Township until 1 p. m. Dec. 21, for the construction of superstructure of a 70-ft. highway bridge. V. E. Johnson is Town Clk., Paxton, Ill. Ira O. Baker is Engr., Champaign, Ill.

KILBOURN, WIS.—Bids are asked by J. C. Bennett, Village Clk., until 10 a. m., Dec. 29, for the construction of a 75-ft. steel arch highway bridge at Kilbourn. Plans and specifications may be obtained from W. G. Kirchoffer, Engr., 31 Vroman Bldg., Madison, Wis.

MILWAUKEE, WIS.—It is reported that the city council has passed a resolution directing the Chicago, Milwaukee & St. Paul Railroad Co. to build a continuous viaduct across the Menominee valley from First Ave. to Sixth St.

MANITOWOC, WIS.—It is reported that the time for closing bids for the new Main St. bridge has been extended until Jan. 2, subject to a further extension on account of holidays.

DECORAH, IA.—We are advised that the Board of Supervisors of Winneshiek County has awarded the contract for the year 1906 for steel platform and truss span bridges and steel pile and concrete pier foundations to J. G. RATCLIFF, of Waukon, Ia.

OGALLALA, NEB.—Bids are asked by the Keith County Commissioners until noon, Dec. 19, for the construction of two single track wagon bridges across the South Platt River at Ogallala. Orin Reed is County Clk.

BROOKINGS, S. DAK.—Bids are asked by Brookings County Commissioners until noon, Jan. 9, for furnishing all material and labor, and building all bridges that may be ordered during the year 1906. P. J. Murphy is City Audr.

REDFIELD, S. DAK.—Bids are asked by the County Auditor of Spink County, until noon, Dec. 28, for the furnishing of all materials and labor and building all bridges that may be required during the year 1906. W. M. McDonald is County Audr.

KANSAS CITY, MO.—The Missouri-Kansas Transit Co., will build a bridge of two spans 400 ft. each over the Kansas River. The same company will construct a steel viaduct with concrete abutments, and a concrete tunnel 3,700 ft. long. R. C. Barett, Engr., Kansas City, is making plans.

FORT SMITH, ARK.—It is reported that the Fort Smith Light & Traction Company will construct a bridge across Arkansas River at a cost of $300,000.

BASTROP, TEX.—Bids were opened Nov. 29 by the Commissioners of Bastrop County for new and repair work on the iron bridge crossing the Colorado River at Bastrop as follows: E. P. Allsbury & Son, Houston, Tex., 153-ft. span, $4,200; 109-ft. span $3,240; 60-ft. span, $3,440. Painting bridge, $1,750. Repair work, $1,650. M. S. Hassic, Jr., Dallas, Tex., 153-ft. span, $4,322; 109-ft. span, $3,400; 60-ft. span, $3,225. Repair work, $1,500. Midland Bridge Co., Kansas City, Mo., 153-ft. span, $4,499; 109-ft. span, $3,500; 60-ft. span, $3,695. Repair work, $1,750. L. S. Leversedge, Ft. Worth, Tex., 153-ft. span, $4,300; 109-ft. span, $3,450; 60-ft. span, $3,600. C. Q. Horton, Austin, Tex., 153-ft. span, $4,000; 109-ft. span, $3,194; 60-ft. span, $3,200. Repair work, $1,500. S. J. Beene, Houston, Tex., on his own patent viaduct, $11.60 per lineal ft. Repair work, $1,395. Painting, $400. Contract awarded to S. J. BEENE, Houston, who desires figures on gasoline hoists.

CAMERON, TEX.—The Commissioners of Milan county awarded the contract for the building of the new iron bridge across Little River at Panbion crossing to E. P. ALSBURY & SON, of Houston, Tex. Price, $7,400.

PORTLAND, ORE.—It is reported that a 400 ft. bridge will be built across Montgomery slough. R. E. Menefee, Portland, is interested.

CHICO, CAL.—It is reported that a bridge will be built across the Sacramento River, near Chico. H. A. Butters of the Northern Electric Co. is interested.

LOS ANGELES, CAL.—It is reported that a new steel bridge is contemplated across the Los Angeles River at Buena Vista and Downey Aves., Los Angeles.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

WATERBURY, CONN.—It is reported that Christian Hauser and others, contemplate the erection of two large tenement blocks on South Main St., opposite Benedict & Burnham Mfg. Co.'s plant. Construction will be brick and wood, four stories, 45 × 65 ft.

BROOKLYN, N. Y.—Bids were opened at the office of Department Public Charities on Dec. 6, for furnishing labor and material for alterations to consumptives building, Kings County Hospital, Brooklyn, as follows: Wm. Horne Co., 245 West 26th St., New York, $4,373; J. M. Knapp, 222 Columbus Ave., New York, $3,904; A. S. Traub, 215 West 125th St., $3,846; N. B. Smyth, 1123 Broadway, New York, $3,741; W. Flanagan & Co., 835 Atlantic Ave., Brooklyn, $3,543; Otto Metz, 22 East 21st St., New York, $3,487; Joseph Ryan, 1280 Fulton St., Brooklyn, $3,200; R. Salomon & Son, 478 Bedford Ave., Brooklyn, $2,998.

A new borough hall for Brooklyn, to cost $4,164,000 has been authorized by the Board of Estimate. The first appropriation for $500,000 was voted. McKim, Mead & White, 156 Fifth Ave., are Archs. The building will be located on the site bounded by the courthouse on Joralemon St. and Court and Livingston Sts.

NEW YORK, N. Y.—Plans are in progress for two 20-story office buildings fronting on Church St., one extending from Fulton to Dey St., while the other will occupy the space between Dey and Cortlandt Sts. The basement area will constitute the terminal of the McAdoo terminal station of the lower McAdoo tunnel under the Hudson River. Cost, $10,000,000. Clinton & Russell, 32 Nassau St., are Archs.

MILLIKEN BROS., 11 Broadway, have been awarded the steel contract for the Pennsylvania Railroad terminal station, and power house. The contract calls for the use of about 25,000 tons of steel at an expenditure of about $1,500,000.

Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., Dec. 18, for installing heating and ventilating apparatus in Public School No. 3 on Grove St., between Hudson and Bedford Sts., Borough of Manhattan.

NEW YORK, N. Y.—Bids were opened by the Board of Education, Dec. 11 for the general construction, etc., of additions and alterations on Public School No. 34, Borough of Bronx, as follows: P. Sullivan, 230 Grand St., New York, $129,600; Geo. Hilderbrand, 38 Park Row, New York, $133,600; P. J. Brennan, 1931 Broadway, New York, $135,600; Clarke & Stowe, 221 Greenpoint Ave., Brooklyn, $136,000; Thos. McKeown, 521 West 110th St., New York, $137,774; Thos. Cockerell & Son, 147 Columbus Ave., New York, $138,900; W. Werner, 892 Forest Ave., New York, $142,689.

NEW YORK, N. Y.—Bids are asked by the Park Board until 3 p. m., Dec. 21, for erecting new south wing of the west facade and permanent cellar passageway for the American Museum of Natural History, Manhattan Square, New York. Charles Volz, 156 Fifth Ave., is Arch.

Bids are asked until 11 a. m., Dec. 26, by G. C. Burnell, Constructing Q. M., for the construction of post hospital at Fort Wood, New York Harbor.

NEW YORK, N. Y.—Neville & Bagge, Archs., 217 West 125th St., N. Y., have prepared plans for brick loft building on 20th St., near Sixth Ave., owned by C. Brogan, 177th St. and Sedgwick Ave., New York. Cost, $230,000.

H. Bacon, 160 Fifth Ave., has filed plans for a 4-story brick bank building, 52 × 125 ft., for the Union Square Savings Bank, New York. Cost, $275,000.

F. S. Schlesinger, Arch., 1623 Madison Ave., New York, has prepared plans for three tenements and stores on 98th St., near Lexington Ave. Cost, $101,000.

NEW YORK, N. Y.—Bids were opened Dec. 11 at the office of the Fire Commissioner for the construction of a building for hook and ladder company on 135th St., near Lenox Ave., New York. P. Gallagher, 1181 Broadway, New York, submitted the lowest bid, at $40,890.

NEW YORK, N. Y.—Bids were opened for the construction of an 8-story club-house for the Alpha Delta Phi Fraternity at 136-138 West 44th St., New York. The bid of Wm. L. Crow, 287 Fourth Ave., New York, was accepted. Contract not awarded yet. Louis C. Brown, Arch., 63 William St., New York.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Pres. Boro. Brooklyn, until 11 a. m., Dec. 20, for the construction of public bath at Fourth Ave. and President St., Brooklyn.

BROOKLYN, N. Y.—All bids for the extension of the 13th Regiment Armory, Brooklyn, were rejected by the Armory Board. The architect's estimate was $92,500, while the lowest bid was $119,800, this bid being $11,000 lower than the next lowest. Owing to the fact that the low bid was based on an error, all were rejected.

St. Savior's Catholic Church will be built on Eighth Ave., near Sixth St. A site 100 × 247 ft. has been purchased. The Right Reverend C. E. McDonnell, D. D., is Bishop of Brooklyn.

ROME, N. Y.—Bids are asked until noon, Dec. 30, by James A. Dougiass, Pres. Bd. Managers, Rome State Custodial Asylum, for electric wiring for lighting, flat irons and ironing machines. (Advertised, Engineering News.)

MORRISTOWN, N. J.—It is reported that Morristown will have a new town hall costing about $75,000.

ATLANTIC CITY, N. J.—It is reported that the Dreamland Amusement Co. will spend about $125,000 in erection of buildings for amusement purposes. G. Neagley, E. Kern and A. Neurnburg, of Trenton, are interested.

MORRISTOWN, N. J.—It is reported that the $75,000 municipal building is a certainty for Morristown. Mayor Reed can give further information.

CHESTER, PA.—WILLIAM PROVOST, of Chester, has been awarded the general contract for the new Y. M. C. A. building on Seventh St. and Edgemont Ave.

McKEESPORT, PA.—It is reported that the Eagles of McKeesport, are about to purchase a plot of ground for the erection of a new $50,000 building.

PITTSBURG, PA.—It is reported that a second set of plans for the Baltimore & Ohio R. R. station here has been submitted to Secretary of War by D. D. Carothers, Ch. Engr., Baltimore, Md. The new building as planned will extend from Smithfield to Grant St., along Water St., and from Water St. to the first pier of Smithfield St. bridge across the Monongahela River. Cost to be about $900,000.

GREENSBURG, PA.—Bids have been asked for completion of new courthouse at Greensburg. The work will cost over $100,000.

McKEESPORT, PA.—It is reported that the site has been secured for the erection of a new theatre at McKeesport. Cost to be $75,000. Marcus Rousseau, Arch., 602 Smith Bldg., Pittsburg, Pa., and H. J. Lohman, of McKeesport, Pa., have drawn plans.

WILMINGTON, DEL.—It is reported that the site for the proposed Y. M. C. A. building has been selected. The cost is to be $200,000.

BALTIMORE, MD.—It is reported that the Chesapeake Steamship Co. has purchased lots at 613-617 Light St., Baltimore, for the erection of a large office building 150 × 150 ft. Reuben Foster is Pres.

WASHINGTON, D. C.—The contract for the rough brick work for the Senate office building, was awarded to the BRENNAN CONSTRUCTION CO., 3056 K St., N. W., Washington, at $3.35 per cu. ft.

Marsh & Peters, 520 13th St., N. W., Washington, have been appointed architects for the proposed Army general hospital on the Cameron tract, Brightwood road, opposite the National Battle Cemetery, costing $300,000.

RICHARDSON & BURGESS, Colorado Bldg., it is reported, have been awarded contract for proposed clubhouse for the Metropolitan Club. Cost, $300,000.

Bids are asked by the Building Committee, B. T. Galloway, Chn., until 2 p. m., Jan. 5, for the installation of electric passenger elevators of two laboratory buildings for the U. S. Department of Agriculture. (Advertised, Engineering News.)

Bids are asked by Capt. John Stephen Sewell, U. S. Engrs., until noon, Jan. 8, for millwork, glass and glazing for Army War College building. (Advertised, Engineering News.)

NORFOLK, VA. — Hofheimer Bros. will erect an addition to the Fairfax hotel at a cost of $50,000.

HARRISBURG, VA.—The Masons will erect a new temple here. Wm. Bucher & Son are Archs.

NORFOLK, VA.—E. L. MYERS, Norfolk, has been awarded the contract for the new Bell telephone building on William and Plume Sts.

NORFOLK, VA.—Following bids were received Dec. 9, by the Bureau of Yards and Docks, Navy Department, for freight elevator storehouse for torpedo boat outfits, Navy Yard, Norfolk: Albro-Clem Elevator Co., Seventh St. and Glenwood Ave., Philadelphia, Pa., $3,975; Brodesser Elevator Mfg. Co., Milwaukee, Wis., $2,458; Otis Elevator Co., 17 Battery Pl., New York, N. Y., $4,150; Baltimore Machine & Elevator Wks., Bush and Wicomico Sts., Baltimore, Md., $3,535.

NEWPORT NEWS, VA.—CURTIS & BRO. have been awarded the contract for the Newport News National Bank.

WHEELING, W. VA.—It is reported that most of the $100,000 has been raised for the new Y. M. C. A. building to be built at Wheeling. D. J. L. Dickey is interested.

SAVANNAH, GA.—Bids will be received until December 19 at the office of the commissioners of Chatham county and ex-officio judges, Savannah, Ga., for the erection of an administration building, farmer's dwelling, barn and stables on the county farm. G. Reuben Butler, Clk. C. C. C.

ATLANTA, GA.—It is reported that plans are in progress for the erection of several office buildings on Mitchell St. and Madison Ave., Atlanta. The improvements will cost about $100,000. Samuel M. Inman, Atlanta, is interested.

KIRKWOOD, GA.—It is reported that a $60,000 school building will be erected. Address the Secretary Board of Education.

AUGUSTA, GA.—It is reported that a $300,000 hotel will be built on Monte Sano Heights, Augusta. Address John B. MacAfee, Augusta.

ATLANTA, GA.—The Southern Bell Telephone Co. will erect a new exchange at Atlanta at a cost of $75,000. H. N. Tyler, Prudential Bldg., Atlanta, is Arch.

BIRMINGHAM, ALA.—The estimated cost, according to revised plans by Thornton Marye, Arch., of the Louisville & Nashville Union station, is $1,025,250.

The Southern Railway Co. has had plans drawn for an extension to its present freight warehouse. It will measure 50 × 800 ft., costing $100,000. M. M. Richey is Asst. Gen. Supt.

DECATUR, ALA.—It is reported that Decatur is considering the building of a city-hall and jail.

PRATTVILLE, ALA.—W. F. Northington is having plans drawn for a 4-story brick office building. Miller & Martin, Birmingham, are Archs.

MONTGOMERY, ALA.—It is reported that N. J. Bell will erect a 4-story brick and concrete office building on Montgomery and Lee Sts., Montgomery. Cost, $50,000; 100 × 100 feet.

NEW ORLEANS, LA.—It is reported that the Colonial Improvement Co. will erect an apartment house at New Orleans, costing $125,000.

The Board of Directors of the New Orleans Public Library has adopted plans for proposed Carnegie Library Building as follows: Plans by Diboll & Owens, 217 Baronne St. for main building; for three branch libraries those of Favrot & Livaudais, Emile Weil and Rathbone E. De Buys, respectively.

Stone Bros., Archs., Cora Bldg., New Orleans, are preparing plans for a fireproof theater for the Equitable Real Estate Co., costing $100,000. Seating capacity, 1,800.

LOUISVILLE, KY.—It is reported that an annex to the Seelbach Hotel in Louisville will be built. F. M. Andrews, Dayton, O., is Archt. Cost, $300,000.

It is reported that the United Brothers of Friendship and Sisters of the Mysterious Ten will erect a clubhouse on Ninth and Magazine Sts., Louisville, at a cost of about $50,000.

MEMPHIS, TENN.—Trustees of the Goodwyn Institute of Memphis, will erect an auditorium and library which is to be eight stories high. Cost, about $200,000.

The Courthouse Commissioners have selected a site at Washington and [illegible] Sts. for the proposed new $1,000,000 courthouse.

KNOXVILLE, TENN.—The site for the Second Presbyterian Church has been selected and plans will be started at once. The new edifice will be located on Church Ave. and Walnut St.

The initiative has been taken to locate the proposed $500,000 federal building at Knoxville. J. C. Sterchi can give information.

TOLEDO, O.—The Board of Education of Toledo will receive sealed bids for the erection of a 6-story addition to the [illegible]aymer school until Dec. 26. Geo. L. [illegible]son is director of the school.

AVONDALE, O.—It is reported that A. Burkhold will build a 10-story [illegible]rtment house on Fourth and Main Sts., [illegible]dale. Cost, $100,000.

CLEVELAND, O.—The Board of Education here has planned the erection of [illegible] new school buildings to cost $325,000.

NEWARK, O.—Richards, McCartney & Bulford, Archs., the Ruggery, Columbus, O., are completing plans for the 10-story bank and office building for the Newark Trust Co., at Newark. Size, 38 × 126 ft. Cost, $100,000.

CINCINNATI, O.—The ordinance providing for the erection of the proposed new city hospital here at a cost of $1,750,000, has been approved.

The Cincinnati Sanitarium, at College Hill, will erect an addition to the hospital costing $50,000.

KENTLAND, IND.—Bids will be received by the commissioners of Newton County until Jan. 1, for the completion of the courthouse including steam heating, plumbing, electric wiring and sewerage.

PERU, IND.—Lehman & Schmitt, 625 Garfield Bldg., Cleveland, have been appointed architects for the new $280,000 courthouse, at Peru.

FRANKFORT, IND.—It is reported that a Carnegie Library building is to be built here.

GRAND RAPIDS, MICH.—The Board of Education has let the contract for the construction of Sigsbee St. school to H. C. CRISSMAN & CO., of South Bend, Ind., for $48,740. This does not include heating and plumbing.

PORT HURON, MICH.—It is reported that P. J. & J. G. O'Neill will erect a hotel and 30 cottages at Keewohdin Beach on Lake Huron.

ST. JOHNS, MICH.—It is reported that Shiawassee County will erect a new courthouse, costing $110,000 at St. Johns.

BATTLE CREEK, MICH.—Sealed bids will be received at the office of the supervising architect at Washington, D. C., until 3 p. m. on Dec. 28, for completing the steam heating apparatus in the U. S. Post Office building at Battle Creek.

ANN ARBOR, MICH.—It is reported that the Michigan Union is planning the erection of a $100,000 clubhouse at Ann Arbor.

CHICAGO, ILL.—It is reported that Collins & Morris will erect eight apartment buildings on Indiana Ave., and 45th St., Chicago, at a cost of $160,000.

It is reported that St. Vincent College here is planning the erection of a new school to cost $50,000.

Figures have been taken by Richard E. Schmidt, Arch., 172 Washington St., for the hospital at 319-331 La Salle Ave., owned by Chicago Polyclinic. It will be 6 stories, 100 × 44 × 76 ft.; fireproof steel construction. Cost, $300,000.

MATTOON, ILL.—It is reported that plans are in progress for a Union depot for the Illinois Central and the Cleveland, Chicago & St. Louis Railways, at Mattoon, costing about $50,000.

CHICAGO, ILL.—W. Carbys Zimmerman, Arch., 1101 Steinway Hall, is preparing plans for a $75,000 alteration to the 5-story office building on Fifth Ave., and Lake St. D. F. Crilly, 167 Dearborn St. is owner, Chicago.

MILWAUKEE, WIS.—It is reported that a new county jail is being discussed by the Supervisors.

PILOT MOUND, IA.—It is reported that a new city hall will be built here. No further details.

EVANSTON, WYO.—GEO. A. KEES DOMESTIC ENGINEERING CO., 200 East Seventh St., St. Paul, Minn., has contract for heating the U. S. Government building here. Its bid was $4,899.

LARAMIE, WYO.—Bids are asked until 3 p. m., Jan. 5, by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for the completion of steam heating apparatus for the U. S. post-office at Laramie. (Advertised, Engineering News.)

BUTTE, MONT.—Proposals are asked by the Board of Directors of the Odd Fellows Home of Montana for an Odd Fellows Home in Montana. Proposals should state exact location and dimensions of site with full information as to proximinity to town or schools and all facts as to desirability of location. Proposals should reach John F. Davies, Secy., Butte, Mont., not later than July 1, 1906.

ST. LOUIS, MO.—It is reported that Louis A. Cella will erect two 14-story office buildings, one on Chestnut and Seventh St., and one at Chestnut and Eighth Sts.

The St. Margarets Congregation contemplates a new church at a cost of $[illegible],000. Building to be located on Flad and Vandeventer Aves.

JAMES BLACK has contract to erect the 14-story office building for the Rutledge & Kilpatrick Realty Co., after plans by Eames & Young, Archs. Cost, $700,000.

It is reported that J. H. Long, of Minneapolis, Minn., will erect a $75,000 apartment house on Delmar and Clara Aves.

SPRINGFIELD, MO.—Plans and specifications are being prepared by Reed & Heckenlively, Baldwin Theater Bldg., Springfield, Mo., for a 5-story building, 80 × 115, of brick, terra cotta, to be erected by the Masonic Temple Assn. Cost, $50,000.

KANSAS CITY, MO.—Bids are asked by the Board of Public Works until Dec. 20, for the erection of proposed fire station. Albert Tuttle, Arch. Building is 100 × 183 ft., three stories, cut stone and vitrified brick. $70,000.

JACKSON, MO.—Bonds have been issued for the erection of a $75,000 courthouse and jail. Address John G. Putz, Treas., Cape Girardeau County.

JOPLIN, MO.—It is reported that the Germania Society will erect a hall at a cost of $50,000. E. Guengerich is Pres.

LITTLE ROCK, ARK.—The Missouri Pacific Railway Co., will erect a union depot here costing $400,000. Theodore C. Link of St. Louis, Mo., is Arch.

PORT ARTHUR, TEX.—The Board of Education has let the contract for proposed school building to J. M. BROWN, of Houston. Price, about $68,000.

DALLAS, TEX.—Bonds have been voted for $300,000 for the erection of new school houses.

ENID, OKLA.—The following bids were opened by the County Commissioners for the construction of the courthouse at Enid: A. O. Campbell, $90,000; Crosby & Son, $94,811; Billings & Snyder, $90,100; Garfield Construction Co., $109,950; Lattimer & Strough, $89,900; Lattimer & Bennings, $99,420; John Volkland Co., $98,146. It is reported that A. O. CAMPBELL, of Oklahoma City, has been awarded the contract.

SEATTLE, WASH.—It is reported that Senator W. G. Potts has leased the Arlington Hotel here and will remodel it at a cost of $200,000.

LOS ANGELES, CAL.—It is reported that the members of the Stock Exchange contemplate the erection of a $400,000 building on Main and Fourth Sts. J. B. Neville is Chn. of the Exchange.

A. P. Fleming, Geo. I. Cochran and Gail Borden, all of Los Angeles, constitute the building committee for the proposed $350,000 Y. M. C. A. building to be built here.

OAKLAND, CAL.—It is reported that plans for the new cathedral of the Scottish Rite Masons of this city, have been approved. The cost will be about $100,000.

OTTAWA, ONT.—It is reported that the Grand Trunk Railway will spend $2,000,000 to erect a railway station and hotel here.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

CHICOPEE, MASS.—We are advised that matter of making Fairview extension of city water-works is only under discussion as yet. C. A. Bogardus is Supt. W. W.

PALMER, MASS.—Palmer Water Co. has petitioned State Commissioners for leave to issue $30,000 of bonds.

Committee is to report in the spring on question of establishing a town water supply.

SPRINGFIELD, MASS.—It is reported that the D'OLIER ENG. CO., 74 Cortlandt St., New York, has secured the contract for the pump and engine to be used in delivering water from Ludlow reservoir to the new filtration plant, for $3,255.

WOONSOCKET, R. I.—Council has passed ordinance authorizing issue of $50,000 of bonds for improvement of water-works.

BINGHAMTON, N. Y.—Contract for two 200 HP. boilers for city pumping station has been let to BABCOCK & WILCOX CO., New York, for $5,600.

NEW HARTFORD, N. Y.—Town board has let contract for furnishing water to Upper New York Mills District to WHITESTOWN WATER-WORKS CO.

BUFFALO, N. Y.—Board of Councilmen have finally passed resolution awarding contract to ALLIS-CHALMERS CO., for 25,000,000 gallon electrical pump. Bids were opened some time ago. Contract price is $26,000.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, until 2 p. m., Dec. 22, for furnishing, delivering and laying high pressure fire service mains and appurtenances in three districts. Bids for this work were opened Nov. 22, and were given under Contract Prices in our issue of Nov. 30. These bids were rejected and the work readvertised, as noted above.

NEW YORK, N. Y.—Board of Estimate has appropriated $1,000,000 for the use of the New Water Supply Board, which is in charge of constructing the $161,000,000 water system.

TROY, N. Y.—Bids are asked by Board Contract and Supply, James M. Riley, Clk., until noon, Dec. 19, for building municipal water filtration plant, with auxiliary pumping plant and two stand pipes; also laying water mains to connect present works with the filter plant, pumping plant and stand pipes, the duplication of stream crossings over the Tomhannock pipe line and all necessary appurtenances. (Advertised, Engineering News.)

RARITAN, N. J.—The Raritan Township Water Co. has been incorporated and will build water-works for this town. Wm. Donomore is agent in charge.

PATERSON, N. J.—The Cardenas City Water-Works Co., Hamilton Trust Co. Bldg., has been incorporated to operate water-works and pumping stations. Incorporators: Walter Moffat and Louis H. Pink, both of 150 Nassau St., New York; Wm. Schek, Jr., West Nyack, N. Y.

TREMONT, PA.—The Citizens' Water Co. has been incorporated to supply water to the citizens of this place and adjacent territory. R. S. Bashore, of Tremont; F. B. Aldrich, of Pottsville; and G. M. Roads, of Pottsville, are incorporators.

PHILADELPHIA, PA.—It is stated that the Department of Public Works has asked the council to appropriate for use in 1906 $5,054,460 for the completion of the filtration system. The items include the completion of the distribution system and pumping machinery to lift water from the Delaware River into the Torresdale plant, $4,200,000 to increase capacity of Belmont pumping station, $370,000; to increase capacity of Roxborough pumping plant, $313,000; increase capacity of Roxborough high service station, $51,000; to increase capacity of Belmont high service pumping station, $26,000, and resanding filters, $17,000.

WILMINGTON, DEL.—The Penn's Grove Water-Works Co. has entered into a contract to supply Pedricktown with 25 fire plugs and water for the plugs.

CHRISTIANA, DEL.—The Pennsylvania R. R. Co. has purchased Smalley's mill and water rights, and will run a pipe line to the Newark Culvert, about three miles. A pumping station is to be equipped to force the water that distance. The survey for the pipe line was completed a few weeks ago. Agents of the railroad company have secured the right-of-way to lay pipes.

EDGEFIELD, S. C.—The question of a water supply is being agitated. Chas. E. May is Mayor.

RICHLAND, GA.—City has voted to issue $15,000 of bonds for building water-works and electric light plant.

CROWLEY, LA.—J. Franklin Schell is organizing the Union Irrigation Co., capitalized at $1,000,000. It is intended to tap the Atchafalaya River to irrigate Acadia and St. Landry parishes.

SMITHLAND, KY.—Harry Ebberman, of Morgantown, Ky., has purchased the franchise, and will run the new water-works in this place.

ANDREWS, IND.—A 25 year franchise has been given to Nichols & Thornton to operate an electric light and water-works plant.

FORT WAYNE, IND.—Bids are asked by F. W. Urbahns, Secy., Trustee of Water-Works, until 8 p. m., Dec. 21, for furnishing work and material for the improvement of the city water-works. The work includes a high duty pumping engine of 10,000,000 gallons capacity per day; an auxiliary pumping plant of 6,000,000 gallons capacity per day; a vertical shaft and centrifugal pump, with electric motor, of a capacity of 2,000 gallons per minute; a deep well pump for use in a tubular well; two 150 HP. boilers; two automatic stokers for boilers; a feed water heater and purifier; reinforced concrete reservoir of 8,000,000 gallons capacity; cast iron pipe and special castings; gate valves; laying pipe and setting valves. Daniel W. Mead, Consult. Engr., 738 First National Bank Bldg., Chicago, Ill. (Advertised, Engineering News.)

JACKSON, MICH.—THE SAVAGE CONSTRUCTION CO., of Chicago, has been awarded the contract to construct a purification plant in connection with the river improvement.

SAGINAW, MICH.—Th Council has authorized the issue of $10,000 of bonds to improve the water-works system. It is said that $100,000 will have to be raised to make necessary improvements.

CHICAGO, ILL.—The city has purchased 1,152 water meters at a cost of $27,000, and they will be distributed among the water consumers as soon as the manufacturers can deliver them. The contracts for the meters were awarded yesterday to the HENRY R. WORTHINGTON CO. and the NEPTUNE METER CO., the low bidders in the recent competition.

It is reported that bids are asked until Dec. 22 for furnishing and erecting in the boiler room of the Harrison St. pumping station 2 horizontal water tube boilers, with all necessary appurtenances. J. M. Patterson is Comr. Dept. Pub. Wks.

ST. CHARLES, ILL.—Council has passed ordinance for new water system. According to preliminary estimates cost of works would be $53,210, divided up as follows: Stand-pipe with a capacity of 100,000 gallons, $5,000; wells, $1,200; pipe and fixtures, $700; reservoir with a capacity of 100,000 gallons, $2,000; hydrants, laying and other expenses, $43,811.

ALBIA, IA.—We are informed by W. G. Wood, Mayor, that bids will be opened in January for a water system to cost about $40,000. C. R. Allen Ottumwa, Ia., is Engr.

VERNON CENTER, MINN.—We are advised that proposition to install village waterworks, to cost $6,700, will probably be voted on in about two weeks. Supply is to be from a well and works include a 40,000 gallon tank on steel tower 80 ft. high, five or six hydrants, 1,500 ft. 6-in. mains and a gasoline pumping plant. Miles Porter, Village Pres., is official in charge.

PAOLA, KAN.—See under Light and Power Plants.

WINFIELD, KAN.—By dissolving an injunction in the federal court at Wichita this city wins in the water-works case, wherein the old water-works company enjoined the city from issuing $80,000 of bonds voted to construct a municipal water-works system.

ARKANSAS CITY, KAN.—We are advised that projected extension of city water-works includes 2,000 ft. of 8-in. main, and installation of a high-duty pump of a capacity of 3,000,000 gallons per day.

LINCOLN, NEB.—It is stated that bids are asked until Jan. 15 for a complete high-duty pumping engine. T. H. Pratt is City Clk.

LAUDER, WYO.—Bonds may be voted by this city for constructing water-works and sewers. According to local advices bids were to be taken soon. Gravity system of waterworks will probably be installed.

CLIFTON, TEX.—It is stated that bonds are soon to be issued to cover expense of constructing a water-works system.

OKLAHOMA, OKLA.—We are advised that bonds have been voted for water-works improvements. Plans will be ready by Feb. 1. Improvements projected are the installation of a new power house, a new water supply, ten miles of new mains and a general overhauling of the old system. $225,000 is available. W. C. Burke is Cy. Engr.

WOODWARD, OKLA.—It is reported that bids are asked for $50,000 of bonds to be used for construction of a water-works system.

STERLING, COLO.—The contract for relaying the pipe line connecting the city mains with the Springdale reservoir has been awarded to C. J. SHEELEY, of Denver, Colo.

STERLING, COLO.—Contract for laying about six miles of 10-in. cast iron pipe for this city has been let to C. J. SHEELEY, Denver, Colo., for $43,958.

ALBUQUERQUE, N. MEX.—Rio Grande Land, Water & Power Co., capitalized at $1,000,000, has been incorporated. A. W. Hoffman, W. W. Shutt and W. B. Childers are interested.

PRESCOTT, WASH.—Bids are asked until Dec. 20 for installation of proposed waterworks. Otto A. Weile, Spokane, Wash., is Engr.

SUMNER, WASH.—Issuance of $13,800 of bonds has been voted for purpose of buying water system.

WALLA WALLA, WASH.—The citizens of this city will vote in the near future on the question of issuing bonds not to exceed $235,000 for purpose of establishing a suitable water system.

Capt. N. H. Creager, Q. M., informs us that all bids on the 900 ft. extension mentioned Nov. 2 were rejected, and that the Department will do the work by purchase of material and hire of labor.

CENTRALIA, WASH.—Improvement of the water-supply plant is to be undertaken. The works will consist of a 300,000-gallon sedimentation basin, slow-sand filter beds and effluent well. H. I. Fuller, Tacoma, Wash., is Consulting Engr.

RITZVILLE, WASH.—Bids are reported asked by this city until 5 p. m., Dec. 19, for furnishing the following supplies for the water-works system: 10,000 ft. of Universal pipe to stand 100 lbs. pressure per sq. in.; 10,000 ft. standard 6-in. wrought iron pipe to weigh 18¾ lbs. per foot; 20 6 × 6 by 6 × 6 crosses; 1 6 × 6 by 10 × 10 cross; 12 4 × 4 by 6 × 6 crosses; 6 6 × 6, 6 × 6 tees; 12 6-in. gates. G. E. Lovel, Clk.

SEATTLE, WASH.—Contract for constructing water mains in East Prospect and other streets has been let to INTERNATIONAL CONTRACT CO., 738 New York Block, Seattle, for $21,029. Bids were opened Dec 2.

ELGIN, ORE.—The Grand Ronde Electric Co. plans to install a pumping plant on the Grand Ronde River, near Imbler, for the irrigation of 7,000 acres of land. Electric motor of 200 HP. will furnish power and pump will be installed that will give continuous flow of 200 ins. of water during the irrigating season. Cost is estimated at $16,000.

EUGENE, ORE.—A late report states that representatives of Rhodes, Sinkler & Butcher, who recently purchased the Eugene waterworks, announce that they will begin the construction of an additional reservoir within 60 days. Additional wells will be sunk and a number of filtration plants installed. Noted last week.

PORTLAND, ORE.—Bids were opened Nov. 27 by the Water Board, D. D. Clarke, Engr., for furnishing pipe and specials, the contract for furnishing 4,195 tons pipe and 166,000 lbs. of specials being awarded to U. S. CAST IRON PIPE & FOUNDRY CO., Chicago, Ill. See under Contract Prices.

SPRINGFIELD, ORE.—City may grant water-works franchise here to Rhodes, Sinkler & Butcher, of Philadelphia. I. W. Anderson, Spokane, Wash., is Pacific Coast representative of Rhodes, Sinkler & Butcher.

LOS ANGELES, CAL.—J. Graham, representing Los Angeles Water Co., has been granted franchise for water system in territory between Los Angeles and Hollywood.

MILL VALLEY, CAL.—Committee, Thos G. Parker, Chn., is considering municipal ownership of water-works for this place.

BANNING, CAL.—Banning Water Co. proposes to spend $17,000 for improvements; steel pipe will replace present wood pipe.

PECK, IDAHO.—Local parties are reported to be considering installing water-works here.

CARIBOU, B. C.—A. E. Snider and Robert Lowe have applied for the incorporation of the Carcross Water & Power Co. to install and operate water-works, electric light and telephone systems. The capital is $50,000.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—The Sewerage Commission has awarded the contract to construct brick pumping station on the shores of Cat Cove to PITMAN & BROWN, of Salem; the contract to equip the station with pumps and electrical machinery to PAUL B. PATTEN, of Salem; and the contract to supply certain iron pipes required to make connections to F. A. HOUDELETTE, 93 Broad St., Boston. Cost of station and equipment will be about $35,000. A bill has been prepared to ask the legislature for $75,000 additional to complete the trunk sewer in anticipation of the payment of $150,000 by Peabody, Mass., on completion of the work.

NEW HAVEN, CONN.—The contract for building the Starr St. sewer was let to JAS. F. DWYER & CO., for $3,172.

WATERBURY, CONN.—It is reported that bids will be received until Dec. 30 by the Bd. Pub. Wks. for constructing a continuation of Section 1, Main Carrier, a reinforced concrete sewer, 4 ft. 5 ins. × 4 ft. 6 ins. in all about 4,060 ft., and including two tunnels, a river crossing and three trunk sewer connections, the tunnels to be constructed during the winter; also for constructing Section Two, Main Carrier, a sewer of similar type and dimensions, in all about 1,860 ft. Robt. A. Cairns is City Engr.

TROY, N. Y.—Eugene H. Porter, State Comr. of Health, has advised the city to construct a sewage disposal plant, to be in operation Jan. 1, 1907, and has made other recommendations for the establishment of such a plant. The State Commission refuses to grant the city permission to construct three sewers, and maintains that no permits will be issued until such time as the city of Troy complies with the regulations of the State Department. Philip Casey is Comr. Pub. Wks.

BINGHAMTON, N. Y.—An engineer may be appointed to prepare plans for the proposed Fourth Ward sewer. Council may appropriate $200 for this purpose. $85,000 of bonds is available. S. M. Baird is City Engr.

NEW YORK, N. Y.—A sewer is projected by the Chester and Morrisania boards in Garrison Ave., at an estimated cost of $40,450.

SYRACUSE, N. Y.—All bids for constructing sewer in Burdick St., opened Dec. 11, were rejected, and new bids will be advertised for. F. J. Schnauber is City Engr.

PLAINFIELD, N. J.—We are informed that a preliminary ordinance has been introduced in council, providing for construction of certain sanitary sewers in three sections of the city and for three pumping or lift stations. Max. lift 13 ft., max. length of force main 2,500 ft., max. quantity 250,000 gals. in 10 hours. Andrew J. Gavett is City Surv. Estimated cost is $55,000.

NEWARK, N. J.—It has been voted to construct several sewers. Morris R. Sherrerd is Chief Engr.

MEDIA, PA.—Carroll Broomall, Engr., will prepare plans for a new sewer system. S. A. Fields is Pres. of Councils.

WILLIAMSPORT, PA.—We are informed by J. J. Galbraith, City Clk., that a short section of storm sewer is likely to be laid shortly.

NORTH WALES, PA.—Council is considering construction of new sewer system. Address J. Luken.

NARBERTH, PA.—Plans will be prepared for a 7-mile sewer system. Bids will be asked when plans are completed.

STOWE, PA.—The contract for constructing about 5,400 ft. of sewer system was awarded to BRYAN & SHEETS.

ALLENTOWN, PA.—The Allentown Chamber of Commerce has recommended that city councils be asked to build a sewer system, to be owned and controlled by the city. At present this city has no house-sewer system. E. J. Lumley is interested.

ERIE, PA.—The Select Council has passed the Veit ordinance, which provides for the issuance of $270,000 of bonds for the purpose of building intercepting sewers in the valley of Mill Creek and along the bay front, the construction of several bridges and the erection of a garbage and sewage reduction plant. B. E. Briggs is City Engr.

WASHINGTON, D. C.—The Superintendent of Sewers, D. C., has included $70,000 in his annual estimates for the extension of the California Ave. sewer, between Rock Creek and Wisconsin Ave., for the benefit of the residents of Tenleytown.

The Commissioner of Indian Affairs will modify the building plans for the Panguitch Indian school, in Garfield County, Utah, to admit of the building of a large septic tank to prevent pollution of Sevier River.

WASHINGTON, D. C.—Bids are asked until noon, Jan. 15, for constructing about 9,500 ft. of 8-ft. 4-in. × 9-ft. 4-in. trunk sewer. This is a portion of the sewage disposal system outfall sewer in District of Columbia. Henry B. F. Macfarland, Comr. (Advertised, Engineering News.)

ROANOKE, VA.—An ordinance has been passed providing for the issuance of $100,000 of bonds for a sewer system.

WHEELING, W. VA.—Bonds for $17,000 have been sold to White & White, of Wheeling, for sewerage and lighting purposes for Edgewood.

HUNTINGTON, W. VA.—Bids are asked until noon, Dec. 16, for constructing several sewers. John H. Sanborn is City Engr. John Coon, Chn. St. Com.

SAVANNAH, GA.—Plans have been made for a storm sewer system. Four plans are being considered with an estimated maximum cost of $29,000 and a minimum cost of $14,000.

TAMPA, FLA.—W. B. COLE, of this city, has been awarded the contract for constructing brick and stone mortar sewers.

Bids will shortly be advertised for the construction of a storm sewer. A. Sullivan is City Engr.

GULFPORT, MISS.—Council has awarded contract for sewerage system, amounting to $40,000, to A. L. PATERSON & CO., Macon, Ga.

BATON ROUGE, LA.—We are informed that contract for sewer system has been awarded to GUILD & CO., Chattanooga, Tenn., at $31,381. R. Swart is Cy. Engr.

RAVENNA, O.—It is reported that bids will be received until Dec. 30 by S. H. Freeman, City Clk., for $22,500 of sewer bonds.

NAPOLEON, O.—Bids are asked until noon, Dec. 28, for constructing a combination storm water and sanitary sewer of about 900 ft. in length and 12 ins. diameter. F. W. Hilgendorff, Village Clk.

WASHINGTON, IND.—Council has voted to extend storm sewer to city limits. City Clerk will shortly advertise for bids.

HUNTINGTON, IND.—HIPSKIND & SONS, of Wabash, Ind., have been awarded the contract for constructing a general sewer on the Southside.

JEFFERSONVILLE, IND.—It is reported that plans are being prepared for constructing a sewer system. Victor W. Lyon is City Engr.

DELRAY, MICH.—The contract for building the new sewer from St. Louis Ave. to the city limits has been awarded to E. P. ADAMS & CO., of Detroit, Mich.

CHICAGO, ILL.—Second bids on the 95th St. sewer were opened Dec. 6. The lowest second bid was $16,000 in excess of the similar first bid. Contracts will not be awarded until after city has made investigation.

ROCK ISLAND, ILL.—The council is reported to have ordered plans prepared for a storm drain and sewer system in the southwest portion of city.

JOLIET, ILL.—The Board of Local Improvements has voted to have plans prepared for the construction of a sewer system in the First Ward.

CHICAGO, ILL.—Bids were opened Dec. 5 by Board Local Improvements, C. D. Hill, Engr., for the construction of the 95th St. system of sewers, including pumping station building and machinery, the lowest bidder being Nash Bros., 84 La Salle St., Chicago, at $871,997. The original estimate for the work was $745,000. Itemized bids are given under Contract Prices.

ATLANTIC, IA.—The council is reported to be considering the question of completing the sewer system, at a cost of $27,000.

DES MOINES, IA.—J. W. Budd, City Engr., has just completed plans for a vitrified clay pipe sewer from Eighth St. to Bird Run sewer.

MORRIS, MINN.—This city is considering construction of a sewer system. At present there is no sewerage system, and the matter has been referred to Lewis C. Spooner, who would like information on the subject, it is reported.

McCOOK, NEB.—It is proposed to hold an election to vote on issuing bonds for proposed sewerage. C. H. Meeker is Engr. W. A. Middletown is City Clk.

VAN BUREN, ARK.—It is reported that J. E. Clark, of Nevada, Mo., has been asked to estimate cost of sewer system for this place.

LITTLE ROCK, ARK.—The construction of two storm water sewers, to cost about $50,000, has been considered. E. A. Kingsley is City Engr.

SEATTLE, WASH.—Council has passed resolution providing for the construction of sewers in 29th Ave., 30th Ave., and 31st Ave. Resolutions were also passed for construction of sewers in First Ave. north and in Lee St. in 20th, 21st and 22d Aves. north and in Lee St. R. H. Thompson is City Engr.

SAN MATEO, CAL.—A sanitary board has been organized to raise $30,000 for a modern sewer system in El Cerrito Park. Henry P. Bowie is interested.

PASADENA, CAL.—The contracts for building sewers on Summit, Iowa, Washington, Jefferson, Roberts, Mountain and Painter Sts. were awarded to S. J. EDWARDS, at $4,689.

FREDRICTON, N. B.—Bids are asked by J. W. McCready, Cy. Clk., until 8 p. m., Dec. 28, for the construction of a sewer system, including about 51,000 cu. yds. trench excavation, 58,000 lin. ft. 8-in. to 18-in. pipe laying, and 630 cu. yds. brick masonry. (Advertised, Engineering News.)

MONTREAL, QUE.—The Finance Committee has voted to give to the Road Committee $12,210 to construct a sewer in Royer St.

HAMILTON, ONT.—The Council has passed an ordinance authorizing the issuance of $20,000 of bonds for additional sewers.

WINNIPEG, MAN.—A sewer system is to be undertaken, to cost about $40,000. H. N. Ruttan is City Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

ERIE, PA.—Select Council has passed ordinance calling for an election to vote on a $270,000 bond issue. Of this sum $50,000 is intended for constructing and equipping a garbage disposal plant.

FORT BARRANCAS, FLA.—Bids are asked by Sam R. Jones, C. Q. M., until 11 a. m., Jan. 8, for labor and material for construction of garbage crematory building and installation therein of a garbage crematory.

HUNTINGTON, IND.—Matter of disposing of city garbage is under consideration. Committee, of which the mayor is a member, has been investigating reduction plant at Vincennes.

CHICAGO, ILL.—Council's finance committee has rejected all bids received recently for garbage disposal and has directed J. M. Patterson, Comr. Pub. Wks. to call for new proposals.

GRAND RAPIDS, MICH.—We are advised that the following bids were opened Nov. 27 by this city, John L. Boer, Cy. Clk., for a new garbage crematory: Decarie Manufacturing Co., Minneapolis, Minn., $40,000, $45,000; Lester Van der Lip Furnace Co, New York, $25,273; Dixon Garbage Crematory Co., Toledo, O., $16,398, $25,100, $36,480, $19,824; Lewis & Kitchen, Chicago, Ill., $18,600, $21,000, $19,533, $21,933, $21,140, $23,540; Sanitary Engineering Co., Cincinnati, O., $35,000.

KANSAS CITY, MO.—Special council garbage committee is stated to have made a report to the council recommending the construction of an incineration plant on the lines of the Decarrie system, and advising the Board of Public Works to call for bids for such a plant. Plant is to have capacity of 200 tons of garbage daily.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

ALBANY, N. Y.—The Board of Supervisors has received plans for improvement of Selkirk and Cocymans road. The estimated cost is $41,000.

SCHENECTADY, N. Y.—It is stated that THE SCHENECTADY CONTRACTING CO. has been awarded the contract for paving Waldorf Pl. and Rugby Road with sheet asphalt, at $1.43 per sq. yd.

NIAGARA FALLS, N. Y.—Bids were opened Dec. 5 for paving 19th and Niagara Sts. H. P. Burgard, of Buffalo, was lowest bidder. Bids were placed on file for 15 days.

COBLESKILL, N. Y.—It is reported that the citizens voted to issue $55,000 of bonds for paving purposes. W. H. Golding is City Clk.

BUFFALO, N. Y.—It is reported that bids are asked until Dec. 21 for paving sections of Whitney Pl., Manner and Park Sts. Francis G. Ward is Comr. Dept. Pub. Wks.

MINEOLA, N. Y.—The Nassau County Supervisors have voted to improve Highland Road at an estimated cost of $5,400.

NEW YORK, N. Y.—At a joint session of the local boards of Chester and Morrisania, to be held at 3 o'clock on Dec. 21, the question of a change in grade of Westchester Ave., in the vicinity of the Bronx River, will be finally disposed of. Holding that the improvement of Hunt's Point road would increase the assessed valuation many times, the local board, at its recent meeting, passed favorably upon the matter. The estimated cost is $70,000. The reports on regulating, grading, sewers, etc., have been made by the chief engineer: Regulating, grading, etc., 166th St., from Morris Ave. to the Concourse; estimated cost, $25,000. Regulating, grading, etc., Crane St., from Robbins Ave. to Timpson Pl.; estimated cost, $13,800. Regulating, grading, etc., Kossuth Ave., from Mosholu Parkway to De Kalb Ave.; estimated cost, $12,700. Regulating, grading, etc., McClellan St., from Morris Ave. to the Concourse; estimated cost, $21,500.

SYRACUSE, N. Y.—All bids for paving Leavenworth Ave. and Highland St. were rejected and work ordered readvertised. F. J. Schnauber is City Engr.

SYRACUSE, N. Y.—Bids are asked until Dec. 18 for paving several streets. F. J. Schnauber is City Engr. Geo. J. Metz, City Clk.

EAST HAMPTON, N. Y.—There will be no delay in the expenditure of the $100,000 road improvement fund. Clark & Swinburne are reported to have been engaged by the town board to survey the 19 miles of road to be treated with Peekskill gravel and the same firm will probably receive the contract to carry out the work.

AVALON, N. J.—It is reported that bids are asked until Dec. 21 for street grading and concrete curbing. G. W. Kales is Chn. Com.

NEWARK, N. J.—It is reported that the contract for paving South 14th St. with brick was awarded to J. R. SHANLEY and the contract for paving Johnson St. with granite blocks to NEWARK PAVING CO., 800 Broad St., Newark.

WILLIAMSPORT, PA.—The Highway Committee of the Councils has voted to pave several streets. James F. Fisher is City Engr.

WILLIAMSPORT, PA.—We are informed by J. J. Galbraith, City Clk., that ordinances are pending for a number of new pavements to be laid after April 1.

BALTIMORE, MD.—The Chamber of Commerce and the Board of Trade are urging the widening of Howard St. It is estimated that about $200,000 will have to be expended. B. T. Fendall is City Engr.

BALTIMORE, MD.—An appropriation of $214,500 is available for pavements during 1906. The materials specified are sheet asphalt, asphalt blocks, treated wood blocks, Belgian blocks or bitulithic pavement. If the bids for any of the materials are excessive and rejected, the city engineer is authorized and directed to pave the streets with vitrified brick. If any of the treated wood bids are rejected on account of excess, the engineer is authorized and directed to pave the streets by day labor with treated wood block. B. T. Fendall, City Engr., will select the materials for each street contract.

LYNCHBURG, VA.—This city contemplates paving some of its streets with Medina sandstone blocks and desires approximate quotations on this material delivered f. o. b. cars Lynchburg. Samples of the sandstone blocks should accompany the approximate quotation. H. L. Shaner, City Engr. (Advertised, Engineering News.)

HUNTINGTON, W. VA.—Bids are asked until noon, Dec. 16, for the grading, paving and curbing of the alley between Second and Third Aves. between Seventh and Eighth Sts., with vitrified brick, and according to plans and specifications prepared by the city engineer and on file in his office. John H. Sanborn, City Engr.

ASHEVILLE, N. C.—It is reported that WARREN BROS. CO., 93 Federal St., Boston, Mass., was awarded the contract for laying bitulithic pavement on Grove and Phillips Sts.

MONTGOMERY, ALA.—Bids are asked until noon, Dec. 18, for paving several sidewalks with Schillinger or Hexagon block. R. S. Williams is City Treas.

NEW ORLEANS, LA.—The Warren Bros. Co., 93 Federal St., Boston, Mass., has submitted a proposal to W. J. Hardee, City Engr., to furnish and erect an asphalt repair plant for $16,700.

The expenditure of $250,000 is being considered for paving St. Charles Ave.

BATON ROUGE, LA.—This city received bids on Nov. 29 for 54,000 sq. yds. of paving on 18 streets. Bids were received for bitulithic, asphalt and brick, and the contract was awarded to the SOUTHERN BITULITHIC CO. at $2.22 per sq. yd. for foundation and surface with five-year guaranty. R. Swart is City Engr.

GALLATIN, TENN.—The issuance of $100,000 of bonds for roadmaking is being urged here.

TERRE HAUTE, IND.—It is reported that W. C. DORSEY has been awarded the contract for improving 15 miles of highway in Pierson Township with gravel, at $35,365.

SOUTH BEND, IND.—It is reported that steps are being taken to pave Cushing St., from Jefferson to Main St., with asphalt.

RICHMOND, IND.—The Board of Public Works will shortly ask for bids for opening and grading West Richmond St.

MANISTEE, MICH.—Council has ordered specifications prepared for paving River St., it is reported. The materials used will be either brick, butminous macadam or bitulithic. Geo. B. Pike is City Surv.

CALUMET, MICH.—The citizens of Red Jacket have voted to issue $125,000 of bonds for street and sidewalk paving purposes. N. Kaiser is Village Clk.

LANSING, MICH.—It is reported that Council has ordered plans prepared for paving Michigan Ave. east, with brick on a sand foundation. H. A. Collar is City Engr.

EAST ST. LOUIS, ILL.—It is reported that plans are being prepared for the improvement of Piggott Ave. W. J. Crocken is City Engr.

GREEN BAY, WIS.—Council has voted to use brick to pave Main and Washington Sts. W. W. Read is City Engr.

OSKALOOSA, IA.—The council has ordered a quantity of new paving for next spring.

WICHITA, KAN.—Specifications have been about completed for paving St. Francis Ave. and bids will shortly be asked. H. J. Harding is City Engr.

ST. LOUIS, MO.—The Board of Public Improvements has passed on 41 new granitoid sidewalks to be built at once, and several streets to be paved. F. D. Hudgins is Supt. Sts.

FORT SMITH, ARK.—W. A. PRATHER has been awarded the contract for paving Garrison Ave., at 37 cts. per sq. yd.

LITTLE ROCK, ARK.—Bids are asked until Dec. 28 for paving Tenth St. from the city park to Battery St. Materials specified are vitrified brick, asphalt, bitulithic and combined concrete curb and gutter. E. A. Kingsley is City Engr.

RENTON, WASH.—Nearly 40 miles of new roads have been planned in and about Renton, Franklin, Cedar Mountain, Black Diamond and Palmer. Louis Seaman, of Cedar Mountain, is interested.

SEATTLE, WASH.—Bids are asked until Dec. 16 for paving 14th Ave. and other streets with asphalt at an estimated cost of $31,500.

Contracts have been awarded as follows: 31st Ave. south, concrete sidewalks, to D. DOW & CO., at $1,180; Prospect St., concrete sidewalks, to SPARGER CONCRETE CO., at $4,207; 32d Ave., grading, to O. E. OLSON & Co., at $9,323; Prefontaine Place and other streets, brick and sandstone block paving, to BARBER ASPHALT PAVING CO., 161 Devonshire St., Boston, Mass., at $107,577.

OAKLAND, CAL.—The following contracts have been awarded to E. B. & A. L. STONE: Paving 61st St., Alcatraz Ave. and 18th St. HUTCHINGSON & CO. have received the contract for macadamizing East 23d St., and BLAKE & BILGER have been awarded a contract for similar work on 61st St. Frank R. Thompson is City Clk.

SAN FRANCISCO, CAL.—The Board of Supervisors has passed a bill appropriating $11,000 for improving Mission St.

BERKELEY, CAL.—W. F. McClure, Town Engr., has charge of plans for the part of the new scenic boulevard which will be within the limits of Berkeley.

TORONTO, ONT.—It is reported that a number of pavements have been recommended to be constructed by the city engineer.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

FARMINGTON, N. H.—It is reported that Frank W. Coburn will establish a large factory for the manufacture of cutlery at Farmington.

PROVIDENCE, R. I.—The Modox Co. will erect a new 2-story brick factory, 49 × 130 ft., on West Exchange St., Providence.

NORWALK, CONN.—It is reported that Norwalk is to have another large silk mill. Details can be obtained from the Business Men's Association.

NEW BRITAIN, CONN.—Max J. Unkelbach, Arch., has completed plans for a large factory building for Landers, Frary & Clark.

NEW HAVEN, CONN.—The Connecticut Construction Co., now under the management of Charles B. Wyckoff, is proposing to enlarge its plant by adding a mechanical auxiliary building, 60 × 300 ft.

COLLEGE POINT, N. Y.—THOMAS WILLIAMS has been awarded the contract to build the new silk dyeing factory for Rudolph Weber, on Tenth St., between Sixth and Seventh Aves.

BURLINGTON, N. J.—U. S. Cast Iron Pipe & Foundry Co. is preparing plans for a new steel frame building, 150 × 150 ft. It will be equipped with electric traveling cranes, cupola, charging platform, etc. Plans are also under way for new machine shop and power plant.

MONTOURSVILLE, PA.—It is reported that the Hanover Furniture Co. will erect a furniture factory here.

PHILADELPHIA, PA.—Savery, Scheetz & Savery, Archs., Girard Bldg., Philadelphia, have completed plans for a 3-story addition, 50 × 80 ft., to the factory of Horace Linton & Bros., on Ruth and Clearfield Sts.

BETHLEHEM, PA.—It is reported that the Bethlehem Steel Co. is planning to construct five open-hearth and Bessemer furnaces, with a capacity of 2,500 tons. A rolling mill will also be erected for the manufacture of structural steel.

PHILADELPHIA, PA.—The contract for heating building No. 18, machine, boiler and blacksmith shops, etc., at the Navy Yard, League Island, was awarded to THE CAMDEN HEATING CO., 105 North Front St., Camden, N. J., low bidder, at $4,611.

STEELTON, PA.—It is reported that a plant for the manufacture of gas and gasoline engines from 1 HP. to 500 HP. will be located at Steelton. About $200,000 will be involved.

MIDLAND, PA.—It is reported that the Midland Steel Co., of Midland, Pa., will erect a new steel plant.

NORRISTOWN, PA.—WILLIAMS & CO., of Philadelphia, Pa., have been awarded the contract for erection of ... for American Equipment Co., which manufacture bridge and structural ... work.

WILMINGTON, DEL.—Stepp... of Wilmington, Del., are reported ... Co., ... templating the erection of new ... con... ing plants here. ...facturing.

LEWES, DEL.—It is reported ... Robert J. Pennington, of Wilmington, ... ar... ranged for the expending of $... in en... larging the Lewes plant of the ... erican Fisheries Co.

BALTIMORE, MD.—E. B. Ho... 213 Courtland St., will erect a new ... at 41 South Gay St., size 33 × 164 ... & Bro., 321 Clay St., may prepare ... Walsh It is reported that the Standard ... & Tile Co., of Baltimore, Md., will ... its plant. No further details.

The Enterprise Wire Works ... a factory on Montford Ave. Plans being figured.

BALTIMORE, MD.—THE W... FF-McLAUGHLIN CO. has received ... contract for building the 4-story ... at Pulaski and McHenry Sts. for ... heim, Oberndorf & Co. Chas. E. Cassell ... Son, Robinson Bldg., Baltimore, are Archs.

Geo. N. Mackenzie, 3d, Arch., ... Builders' Exchange Bldg., has been ... to revise the plans for the factory ... Pennsylvania Ave. for the Baltimore ... Top Co.

NORFOLK, VA.—The contract for ... new Schlitz brewery was awarded to E. ... SON, of Norwalk, Va. Total cost will be $50,000.

MANCHESTER, VA.—The Cameron Stove Co. will erect a new factory on Ninth St. in this city.

RICHMOND, VA.—The Virginia Pipe & Foundry Co. will erect a plant at Richmond for the manufacture of iron piping and plumbers' supplies. Thos Wheelwright is Pres.

WINSTON-SALEM, N. C.—It is reported that a large lace factory will be located in this city. G. W. Hinshaw and A. B. Eaton are interested.

... N. C.—The Core Hardwood Co. will erect a new plant here. G. M. Core is Pres.

CHARLESTON, S. C.—The Consumers' Coal Co. is arranging for the erection of a cold storage plant at Charleston. A. F. C. Cramer, Pres.

COMER, GA.—It is reported that L. F. Edwards, of Athens, has bought the Watson mill property near this place and will erect a $100,000 plant for the manufacture of yarns and later thread and twine.

ATLANTA, GA.—It is reported that The Southern Iron & Equipment Co., of Atlanta, will make extensive improvements to its present works.

The Riverside Compress Co., of Atlanta, Ga., is planning extensive open sheds, with fire walls, covering a space of 60,000 sq. ft. McMurphy & Storey are the Archs.

GADSDEN, ALA.—It is reported that The Weller Rolling Mill & Forge Co., of Anniston, Ala., is considering the erection of plant at Gadsden, to be equipped for making merchant iron in sizes ranging from the smallest in all shapes to the capacity of 8-in. rolls, having a daily output of 60 to 70 tons. Cost is approximately $100,000.

NEWROADS, LA.—The Anheuser-Busch Brewing Association has purchased a plot of ground in Newroads, where it is proposed to build a modern ice and cold storage plant. The plant will have 20 tons capacity, but additional machinery will be installed to allow for an increase of a daily output of 50 tons.

NEW ORLEANS, LA.—The New Orleans Cold Storage Co. is making arrangements for extensive additions to its present plant. The addition will be four stories, with over 500,000 cu. ft. of space.

BUNKIE, LA.—It is reported that C. J. Pope and associates contemplate the erection of a large sugar factory here.

JACKSON, TENN.—It is reported that the Richmond Cotton Oil Mill Co. is making arrangements to erect a new cottonseed oil mill here.

CHATTANOOGA, TENN.—It is reported that a large paper mill will be located at Chattanooga. O. D. Cornell, E. D. Bixby and C. E. Burrell, of Kalamazoo, Mich., are interested. Cost is approximated at $25,000.

MEMPHIS, TENN.—It is reported that F. M. Crump and associates have purchased 100 acres of land in South Memphis, on which will be erected a co-operative system of compresses and warehouses. It is proposed to build four compresses and warehouse facilities for 200,000 bales of cotton.

B. Lowenstein & Bros. propose to erect a new warehouse at Fourth and Washington Sts., which will cost approximately $90,000. The lot measures 200 × 148 ft.

UTICA, O.—The Advanced Glass Co. is to construct a new glass factory for the manufacture of glass by secret processes. Johothar Rees, W. H. Fuller and J. R. Fitzgibbon are interested.

TOLEDO, O.—The Ohio Steel Wheelbarrow Co., 23 South St. Clair St., Toledo, will erect new factory buildings on Nebraska Ave., near the Lake Shore tracks. Buildings will cover about 1½ acres. J. F. Zohm is Pres.

YOUNGSTOWN, O.—It is reported that the Reliance Edge Tool Co. intends to build a plant in this city for the manufacture of crucible tool steels and certain lines of tools. Charles McCarthy will be in charge.

DAYTON, O.—It is reported that the National Cash Register Co. may enlarge its plant here.

CINCINNATI, O.—The Herancourt Brewery Co. will erect an addition to its plant here, costing about $50,000.

LAFAYETTE, IND.—It is reported that a

movement is on foot to establish a $500,000 match factory here. William S. Potter can give information.

KIMMELL, IND.—Plans for the new plant for the Portland Cement Co. will be complete about Jan. 15 by Edward Hoykendorf, Arch., of Syracuse. The ground plans is 100 x 170 ft. Melville M. Smith, of Syracuse, Ind., is manager.

EVANSVILLE, IND.—A site has been purchased for a new paint factory at Illinois St. and Evansville Ave. W. H. McCurdy, of Evansville, Ind., and Edward Stickney, of Cincinnati, O., are interested.

DETROIT, MICH.—The Palmer Mfg. Co., of Detroit, intends to double the capacity of its plant and will be in the market for new power machinery and accessories as well as woodworking machinery. R. G. Parker, 88 Holborn Ave., Detroit, is in charge.

CHELSEA, MICH.—The Glazier Stove Co. is arranging to enlarge its plant by the addition of two new buildings, each 3 stories high. Both buildings will be of brick and steel construction, equipped with latest improved machinery. One building will be used for gasoline stoves and the other for steel ranges. This company desires correspondence with manufacturers of equipment required.

CHICAGO, ILL.—Plans have been prepared for an 8-story warehouse on State St., near 14th St., Chicago, for Mrs. Augusta Lehmann. Mill construction; 60 x 143 ft.; costing about $100,000.

CENTERVILLE, ILL.—It is reported that the phosphate tracts in Hickman county have been negotiated for, and fertilizer factories are to be erected. J. O. Reilly is interested.

FOND DU LAC, WIS.—It is reported that the Fond du Lac Cheese & Butter Co. will erect a large cold storage warehouse here. The site will be between Vine and Cherry Sts., near the Wisconsin Central tracks. Size will be 40 x 150 ft, two stories and basement.

DUBUQUE, IA.—It is reported that John F. Hattman will erect a new boiler factory here.

ST. LOUIS, MO.—The following equipment is needed for the proposed Post Pipe Co.'s new plant mentioned in last week's issue: 200 H.P. Corliss engine and boiler; dynamo for 150 lights and power for 3 elevators. Robert Osterhorn, 1014 North Sixth St., St. Louis, is Arch.

It is reported that the American Tobacco Co. will erect a new warehouse here at a cost of $75,000.

KANSAS CITY, MO.—It is reported that the Missouri Pacific Railway will erect a new freight house at Kansas City. Plans are drawn for three buildings: one for outgoing freight, 36 x 1,200 ft.; one for incoming freight, 48 x 600 ft.; and an oil storage building, 36 x 40 ft.; buildings to be one and two stories; brick, stone and steel. F. B. Sheets, Engr., St. Louis, Mo., is in charge.

GEO. W. GOODLANDER, Master Builders' Exchange, Kansas City, has contract for erection of warehouse and office building for the Missouri, Kansas & Texas Terminal Co. F. W. Pratt, 415 Shukert Bldg., is Engr.

ARGENTA (Little Rock post-office), Ark.—It is reported that the Union Wagon & Truck Co. contemplates the erection of a new concrete factory building here.

BRUSH, COLO.—The contract for the erection of the sugar beet factory to be built here was let to BYHRE & CO., of Cleveland, O.

FORT MORGAN, COLO.—It is reported that the Great Western Sugar Co. has arranged to erect a large sugar factory, 1½ miles from Fort Morgan. The cost is approximated at $1,500,000, and to have a daily capacity of 600 tons.

DENVER, COLO.—BROWN & SCHRAPFERMAN, of Denver, have been awarded the general contract for building the new Morey & Boettcher sugar factory at Wazee and 16th Sts.

ROSWELL, N. MEX.—It is reported that the Acme Cement Co. will build a "six kettle" mill on the Pecos River, near Roswell.

BREMERTON, WASH.—Specifications are on file at the office of Engineering News, New York, for constructing a brick and steel building at Puget Sound Navy Yard, Bremerton. Bids are asked until Jan. 20. Noted last week.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

SEA WALL.—Coronado, Cal.—It is stated that a $135,000 bond issue has been voted for building a sea wall.

LEVEE.—Sacramento, Cal.—Bids are asked by M. J. Desmond, Cy. Clk., until 8 p. m., Dec. 18, for the construction of a levee on Front St.

PUBLIC IMPROVEMENTS. — Hattiesburg, Miss.—We are advised that this city will require an expenditure of $200,000 for public improvements.

CANAL WORK.—Port Huron, Mich.—Contract for completion of Lake Huron-Black River Canal has been let to GRAVES & STEVENS, Indianapolis, Ind., for $73,000.

DREDGING.—Jacksonville, Fla.—Bids are asked until noon, Jan. 8, for dredging at Orange Mills Flats, St. Johns River, Fla. Major Francis R. Shunk, U. S. Engr. (Advertised, Engineering News.)

CAISSON.—Charleston, S. C.—Bids are asked by Bureau Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., Jan. 6, for constructing a steel caisson for Dry Dock No. 1, Navy Yard, Charleston.

DAM.—Austin, Tex.—Advices from this city state that the rebuilding of the dam across the Colorado River at this place is now practically assured. Stone & Webster, 84 State St., Boston, Mass., are reported as being back of the project. Cost of rebuilding dam is set at about $500,000.

READERS' WANTS Our readers, and others, who are in the market for supplies, machinery, etc., or to award contracts for work, will nearly always find the names of the firms who handle the material they want by referring to our advertising pages. Our advertisers are constantly changing their cards, and for this reason we advise our readers to look over the paper from the front cover to the back cover so as to keep in touch with up-to-date contractors' material, methods, etc. **Mention Engineering News** when writing our advertisers. If, however, you do not find advertised just what you want please write us at once and we will notify the proper firms without delay, and **without charge.—Engineering News can help buyers.**

FLOUR MILL MACHINERY.—Salvador, C. Am.—Francisco Espinol y Cia., 7a Avenida Sur No. 33, San Salvador, wants catalogues from makers of flour mill machinery.

HP. CENTRIFUGAL PUMP.—Newton, N. J.—Hinman & Sproul, contractors, write us that they are in the market for an 8-HP. Centrifugal pump, second-hand preferred.

CYLINDER.—New York, N. Y.—A 16 x 22-in. cylinder, or thereabouts, 4-valve automatic engine. Address E. H. F., care of Engineering News, New York.

WOODEN SCOWS AND BARGES.—Syracuse, Ind.—Edward Hoykendorf, M. E., of Syracuse, Ind., writes us for the names of firms who build scows and barges of wood.

COFFEE ROASTING MACHINES.—Brazil.—Wm. J. Sheldon, Rua Visconde do Rio Branco 94, Sao Paulo, Brazil, writes us that he is in the market for coffee roasting machines, etc.

GASOLINE OR KEROSENE MOTOR CARS.—Grenada, Miss.—W. R. Wallis, C. E., writes us that he wants the names of firms who make gasoline or kerosene motor cars for railways.

WELL MACHINERY.—Chili, S. Am.—Antonio Maria Lopez, of Faria, Autofagasta, Chili, is reported as wanting catalogues from firms who make machinery for exploiting wells and equipping the same.

RAILWAY SUPPLIES.—Colombia, S. Am.—Dr. Jorge Palz, of Medillin, Colombia, Asst. Engr., Antioquia Ry., is understood to be in the market for railway supplies for the proposed improvements to the line.

OFFICE FURNITURE.—New York, N. Y.—Catalogues are wanted from manufacturers of unit-book shelves, newspaper clipping files, etc. Address F. H. E., care Engineering News, 220 Broadway, New York.

RELAYING HAND RAILS.—New York, N. Y.—The Roebling Construction Co., Fuller Bldg., Broadway and 23d St., writes us that it is in the market for a small lot of relaying hand steel rails, from 56 to 60 lbs.

CREOSOTING MACHINERY.—Baltimore, Md.—The J. S. Hoskins Lumber Co., Light and Lee Sts., writes us that it wishes to be placed in correspondence with firms who make creosoting machinery and equipment for a creosoting plant.

HIGHWAY SUPPLIES.—Salvador, C. Am.—Drs. R. G. Gonzales, Bonefacio, Baires and Santiago Mendez, of San Salvador, Salvador, are in the market for machinery, supplies, etc., for the proposed new highways to be built in 1906.

ALCOHOL LIGHTING PLANT.—Salvador, C. Am.—J. V. Umana, of Chalatenango, Salvador, is reported as wanting catalogues from firms making alcohol lighting apparatus.

MACHINERY FOR TIN MINES.—Bolivia, So. Am.—Segundina Flores, of Cochabamba, Bolivia, is reported as interested in a new tin mine, and desires to receive catalogues from firms making machinery for tin mines.

BUILDING MATERIALS.—Danville, Ky.—Billiter & Hord, Contractors, of Williamstown, Ky., write us that they are in the market for cement, brick, plumbing, electric wiring, etc., for the new station at Danville, Ky., for the C., N. O. & T. P. R. R.

AUTOMOBILE TRACTION ENGINES.—Mexico.—E. W. Graves, of Graves & Graves Co., contractors, of Frontera (Tobasco), Mex., writes us that he is in the market for automobile traction engines, with disc plow combinations. Catalogues are wanted at once.

SAND-BLAST EQUIPMENT.—Mexico.—H. W. Anderson, of San Jose, Tam., via Linares, N. L., Mex., writes us that he wants the names of makers of sand-blast equipment for cleaning sheet and structural iron, etc., in place. Catalogues and prices are wanted at once.

MACHINERY FOR BLEACHING BEESWAX.—New York, N. Y.—E. A. Bromund, 582 East 152d St., writes us that he wishes to be placed in correspondence with firms that make apparatus for bleaching beeswax with chemicals, also refining paraffine and deodorizing paraffine.

GASOLINE RAILWAY MOTORS.—Dyersburg, Tenn.—A. B. Thurston, Ch. Engr., Dyersburg-Northern R. R. Co., writes us that he wants the names of makers of gasoline railway motors. It is desired to find out whether such a motor can be used on the D.-N. Ry. with considerable saving.

CONTRACTING MACHINERY, DRILLS, DREDGES, ETC.—Argentina, So. Am.—Wm. E. Peck & Co., Exporters, 116 Broad St., New York, N. Y., write us as follows: "Kindly furnish us with a list of manufacturers of all kinds of machinery, such as drills, dredges, etc., suitable for river dredging. We have received a very important inquiry from some of the leading engineers of the Argentine Republic for catalogues, descriptive matter and full particulars regarding such machinery suitable for dredging rivers for gold. You have undoubtedly heard of the great boom in this industry in Southern Argentine and Southern Chile, and we trust that you will give this matter sufficient of your valuable time to furnish us with a complete list of makers of all kinds of suitable machinery for the purpose intended."

PILING AND TIMBER.—Oneida, N. Y.—A sub-contract for furnishing piling and cribbing timber for the barge canal docks at Sylvan Beach has been let to DUNCAN W. PECK, Syracuse, N. Y., for about $60,000.

TOP SOIL.—New York, N. Y.—Bids are asked by Park Board, Samuel Parsons, Jr., Pres., 5th Ave. and 64th St., until 3 p. m., Dec. 21, for furnishing and delivering top soil or garden mould. About 19,000 cu. yds. is required.

IRON, LUMBER, ETC.—New York, N. Y.—Bids are asked by Francis J. Lantry, Comr. of Correction, 148 E. 20th St., until 11 a. m., Dec. 21, for furnishing and delivering hardware, paints, iron, steam fittings, lumber and miscellaneous articles.

FILLING.—Far Rockaway, N. Y.—Estimates are wanted for filling of lands at Far Rockaway, L. I. About 200,000 cu. yds. of sand are to be pumped from ocean. Armstrong & Joyner, 1133 Broadway, New York City, are in charge of the project. (Advertised, Engineering News.)

DREDGING.—New Orleans, La.—Bids were opened Nov. 27 by Capt. J. F. McIndoe, U. S. Engrs., for dredging a channel near west shore of Sabine Lake, the Bowers Southern Dredging Co., Galveston, Tex., at $281,680, being the lowest bidder. This bid was recommended for acceptance. See under Contract Prices.

FIRE HOSE.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., 157 E. 67th St., until 10.30 a. m., Dec. 18, for furnishing and delivering 4,000 ft. 2½-in. rubber fire hose, 4,000 ft. 2½-in. cotton fabric rubber lined fire hose (3 ply), and 4,000 ft. 2½-in. cotton fabric rubber lined fire hose (4 ply).

EXCAVATION.—Brooklyn, N. Y.—Bids are asked by Martin W. Littleton, Pres. Borough of Brooklyn, until 11 a. m., Dec. 27, for furnishing all the labor and materials required for excavation in Paerdegat Basin, from Flatlands Ave. to Avenue M, Borough of Brooklyn. About 5,000 cu. yds. excavation are required.

BROKEN STONE.—New York, N. Y.—Bids are asked by George Cromwell, Pres. Borough of Richmond, 1st National Bank Bldg., St. George, New Brighton, until noon, Dec. 19, for furnishing and delivering broken stone. About 800 cu. yds. 1½-in. stone, 1,600 cu. yds. ¾-in. stone and 600 cu. yds. screenings are required.

WIRELESS TELEGRAPH. — Washington, D. C.—Following bids were opened Nov. 18 at the Navy pay office, Washington, for furnishing ten sets of wireless telegraph apparatus: Clark Electrical Engineering Co., $9,468; MASSIE WIRELESS TELEGRAPH CO., $15,000 (awarded contract); DeForest Wireless Telegraph Co., $25,000; International Telegraph Construction Co., $48,300; Ostheimer Bros., $67,950; Marconi Wireless Telegraph Co., $175,000; National Electric Signaling Co., $393,500. It is understood that one set of these instruments will be installed on the Atlantic coast, the others at various points on the Pacific coast.

FIRE ALARM BOXES, ETC.—New York, N. Y.—Pids are asked by Nicholas J. Hayes, Fire Comr., 157 E. 67th St., until 10.30 a. m., Dec. 21, for furnishing and delivering the following: Fire alarm box lamp-posts, test-posts and auxiliaries therefor, for the fire alarm telegraph bureau, 40 fire alarm telegraph signal boxes; 50 fire alarm telegraph signal boxes for the Borough of Queens.

DOCK WORK.—Superior, Wis.—Contracts for extension of Great Northern ore dock at Allouez and for the construction of the superstructure of the new Northern Coal & Dock Co.'s coal dock at Connors Point, are stated to have been let to SCHMIDT BROS & HILL, Superior. Contract for coal dock amounts to $100,000, and a sub-contract for pile driving for this work was let to WHITNEY BROS.

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m. Jan. 9, for furnishing a quantity of machine tools, as follows: Schedule 279, piston inlet air compressor; schedule 280, buzz planer; schedule 281, electric hoist and runway; schedule 282, electric motor driven outfit, arbor press, milling machine, engine lathe, saw-setting machine, shears, shaft straightener; schedule 283, automatic screw machine. H. T. B. Harris, Paym. Gen. U. S. N.

STEAM ROLLER.—Minneapolis, Minn.—Following bids were received by this city for a steam roller for the 5th Ward: Erie Machine Shops, Erie, Pa., 5-ton roller, $1,850; 8-ton roller, $2,650. Kelly Springfield Roller Co., Springfield, O., 10-ton roller, $1,800, $2,600 and $3,000; 12-ton roller, $1,950, $2,700 and $3,100; 15-ton roller, $2,850 and $3,200. Iroquois Iron Works, Buffalo, N. Y., 10-ton roller, $2,575. N. W. Port Huron Co., Port Huron, Mich., 9-ton roller, $1,950; 11-ton roller, $2,130; 13-ton roller, $2,400.

BUOYS, SINKERS, MOORINGS, ETC.—Tompkinsville, N. Y.—Bids were opened Nov. 7 by Capt. M. R. S. Mackenzie, U. S. N., Light House Inspector, for furnishing and delivering during fiscal year ending June, 1906, buoys and appendages. For furnishing (1) ballast balls and (2) iron sinkers, bids were received as follows: New Jersey Foundry & Machine Co., New York, (1) $4,860, (2) $15,676; Chattanooga Car & Foundry Co., Chattanooga, Tenn., (1) $5,045, (2) $14,461; Weatherly Foundry & Machine Co., Weatherly, Pa., (2) $13,857; Rass Mehon Foundry Co., Chattanooga, Tenn., (1) $6,779, (2) $18,848; M. H. Treadwell & Co., Lebanon, Pa., (1) $6,948, (2) $14,944; Thos. Reise, Jr., Co., New York, (1) $5,633, (2) $14,267, Geo. C. Thomas, New York, (1) $7,258, (2) $18,833; Richmond Iron Works, Richmond, Va., (1) $8,447, (2) $21,734. For furnishing bells for bell buoys the following bids were received: Geo. C. Thomas, New York, $2,456; Richmond Iron Works, Richmond, Va., $1,700; Paul S. Reeves & Son, Philadelphia, Pa., $1,622; Union Boiler Mfg. Co., Lebanon, Pa., $1,649. For furnishing ice buoys, Union Boiler Mfg. Co. bid $1,710 and Christian Seidel, Lebanon, Pa., bid $1,610. For furnishing winter channel buoys, Geo. N. Seidel, Lebanon, Pa., bid $13,982 and Union Boiler Mfg. Co. bid $23,300. For furnishing (1) whistle buoys and (2) can and nun buoys, bids were received as follows: Union Boiler Mfg. Co., (1) $7,050, (2) $22,800; P. Delaney & Co., Newburg, N. Y., (1) $5,800, (2) $18,120; Franklin Machine & Steam Boiler Works, Brooklyn, (1) $5,125, (2) $13,130. The Union Boiler Mfg. Co. bid $12,300 for bell buoys; Safety Car Heating & Lightin Co., New York, bid $18,400 for gas buoys, and Wm. A. West, Norfolk, Va., bid $5,200 for spar wood buoys. Bids were opened Nov. 21 for moorings for vessels and buoys, the bids received being as follows: (1) Lot 1 chain for buoys, (2) Lot 2 chain for buoys, (3) Lot 3 chain for light vessels, (4) Lot 4 mushroom anchors, (5) Lot 5 bridle chain, (6) Lot 6 swivels, (7) Lot 7 swivels, (8) Lot 8 light vessels shackles, (9) Lot 9 anchor shackles, (10) Lot 10 buoy shackles: R. W. Geldart, New York, (1) $14,664; Lebanon Chain Wks., Lebanon, Pa., (1) $12,935, (2) $22,500, (3) $26,-538, (5) $306.99; F. S. Banks & Co., New York, (1) $13,577; Wm. A. Hall Sons, New York, (4) $6,825; Bradlee & Co., Philadelphia, (3) $30,586, (7) $1,231, (8) $2,086, (9) $118.10; West End Rolling Mill Co., Lebanon, Pa., (1) $12,973; Monongahela Iron & Steel Co., Pittsburg, (1) $21,106, (2) $41,-197, (3) $34,756; M. H. Treadwell & Co., Lebanon, Pa., (4) $2,775, (6) $1,173, (7) $2,-216, (8) $2,422, (9) $139.73, (10) $6,587; Fletcher & Crowell Co., Portland, Me., (6) $1,438, (7) $2,039, (8) $1,739, (9) $99.02, (10) $7432; Newhall Chain Forge & Iron Co., New York, (1) $13,880, (2) $24,391, (3) $26,315, (4) $2,709, (6) $1,373.56, (7) $2,308, (8) $1,-867, (9) $104.30, (10) $6,269.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

WHARVES.—Manila, P. I.—Bids are asked by Bureau of Port Works, Lt. Col. W. L. Fisk, U. S. Engrs., Director, until 11 a. m. April 5, for the construction of two steel wharves in Manila Harbor. Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York.

RAILWAYS.—Manila, P. I.—F. A. Molitor has been appointed by the War Department Supervising Engr. for the Philippine Commission, in charge of the construction of a system of railroads in the Philippine Islands, aggregating 1,200 miles length, which are to be constructed under the act approved Feb. 6, 1905.

WATER AND ELECTRIC PLANT.—Porto Rico.—City of San Juan is having investigations made as to feasibility of municipal water-works and electric lights. It is roughly estimated that the cost of the plants would be about $800,000. Municipality of Caguas also desires to float a loan of $100,000 to install a system of sewers and water supply.

QUAY WALL.—Cuba.—The Bureau of Yards and Docks, Navy Department, Washington, D. C., has decided to reject the only proposal received for constructing a quay wall at the Naval Station, Guantanamo, Cuba, the price being regarded as too high. New proposals will not be invited at this time. At the opening of bids Dec. 2, the Globe Construction Co., Boston, Mass., bid $171,329 for the work complete.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

BRIDGE.—Chiapas.—The state legislature of Chiapas has passed a resolution to build a bridge over the Grijava River at El Paso de Chiapas. E. A. Ampudia has been appointed engineer to prepare estimates and plans for the structure, and may be addressed at Tuxtla Gutierrez, the capital of the state.

WAGON ROAD.—Chiapas.—The state government is to construct a wagon road from San Cristobal, in the state of Chiapas, passing through the department of Chilon to the Salto de Agua, in the department of Palenque, in the state of Tabasco. The governor of the state of Chiapas can give details, and may be addressed at Tuxtla Gutierrez.

HYDRO-ELECTRIC PLANT.—Jalisco. — Felix Araiza, as the representative of Carlos Romero, has made formal application to the department of fomento for a concession to divert 2,000 liters o f water per second from the Bolanos River in the state of Jalisco for the generation of electric current. Power will be transmitted to the Tamara y Anexas mines, the San Antonio reduction works and to other mines and mills in the Hostotipaquillo district. Mr. Romero's address is Circulo Mercantil, Guadalajara, Jal.

TUNNEL.—Guanajuato, Gto.—The state government of Guanajuato has extended the time for the reception of bids for the construction of the Cuajin tunnel until Jan. 31, 1906. This tunnel is to divert the flood waters from the Guanajuato River, to guard against a repetition of the disaster last July, and will cost about $350,000. The government reserves the right to make the contract before the end of the entended time if satisfactory terms and conditions can be arranged with any bidder. Contractors will be required to deposit one-half of the value of the work undertaken, or otherwise guarantee the faithful execution of the contract. The tunnel will be practically in solid rock, with an approach of 90 meters, and an exit of 110 meters in open cut. The

tunnel must be completed by June 15, 1908. The governor of the state, Joaquin Gonzalez Obregon, can be consulted in relation to the contract.

WATER AND SEWER SYSTEMS.—Hidalgo del Parral, Chihuahua.—Bids are asked until 4 p. m. Jan. 15 for furnishing material and construction of a system of sewerage and hydraulic works for the sanitation and water supply of the city. Work includes furnishing iron pipe and fittings, and vitrified clay pipe and fittings, valves and their cases, Portland cement, lime; also work of excavating and laying pipes, masonnry work, fire hydrants, and construction of stone and mortar dam, cement lined, Victor Esperon, Municipal Palace, Hidalgo del Parral, is Secy. Com. Specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

MINING CONCESSIONS.—France.—Oskar Lefebvore has solicited the concession of the iron and other metal mines situated on the territory of the communes of Wavrin, Saingh-in-en-Weppes, Marquillies, Herrin, Allennes-les-Marais, Annoeuillin & Bauvin, arrondissement of Lille. Mr. Lefevore is acting on behalf of the Societe Civile de Recherches de Minerais de fer de la Haute Denle, 35 rue Neuve, Roubaix (Nord).——Mr. Raymond, St.-Etienne, acting on behalf of the "Societe anonyme des mines d'antimoine de la Bourboule St.-Sauve," 55 rue de la République, St.-Etienne, has solicited the concession of the arsenic, antimony, silver and other metal mintes on the territory of the commune of Matra, arrondissement of Corte.——The Societe des Mines Metalliques de l'Aveyron, represented by Louis Mongin, has just secured the concession of the zinc and metal mines of Saint-Jean-du-Bruel.——Octave Crochet, Managing Director of the Societe Anonyme des Mines de Montolieu, acting on behalf of his company, whose headquarters are situated at 32 faubourg d'Auvergne, Alais (Gard), has asked a concession for the zinc, lead, copper, silver and other metal mines in the territories of the Communes of Bonac and Bordes.

RAILROAD.—Ecuador.—The Government of Ecuador has decided to build a railroad from Ambato, in the province of Tunguraughua, to San Antonio, at the head of navigation on the Curaray River, a distance of 120 miles. The object is to develop the rich district east of the Andes Mountains, which abounds in cedar, rosewood, rubber, and the many hard and dye woods characteristic of the upper Amazon country. This district at present is inaccessible through lack of transportation facilities. It is also proposed to shorten the distance for transporting the upper Amazon rubber, which it will do by connecting with the Guayaquil & Quito Ry. at Ambato, thence to the port of Guayaquil on the Pacific side, making a haul by rail of 277 miles, and the entire distance to New York 4,000 miles, instead of 7,000 miles, as at present via the Amazon River. Besides the many valuable woods, the soil is exceedingly rich and climate healthy. The road, starting at an elevation of 8,500 ft. at Ambato, will follow the valleys of the Rio Ambato and Rio Pastaza to a point near the town of Barrancas, within a short distance of the gold country, thence across the Barrancas Plains to San Antonio on the Rio Curaray, at an elevation of 2,700 ft. The maximum gradient will be 2%, compensated for a maximum curvature of 7°, and the gage will be 42 ins. The Cascade of the Rio Pastaza has a sheer drop of 198 ft., capable of developing 260,000 HP. in the dry season, which lasts from March until December. Three other falls conveniently located on tributaries are capable of 10,000 HP. each, assuring abundance of power. The estimated cost of construction and equipment is $6,000,000 gold, which the government will appropriate from special funds for this purpose, $1,000,000 of which will be spent during the coming year. In a few weeks a plant necessary to put 2,000 men at work will be purchased in this country and it is expected that actual work will commence in three months. The Ecuadorian Government has appointed a commission of seven, including members of the different political parties, to look after this work, represented by Luis A. Martinez, Director General of Public Works, of Quito. The reconnoissance was made by Chas. H. Moore, First Assistant Engineer of the Erie R. R. Co., who has recently returned from Ecuador, and details of survey by his assistants on the work, W. G. Fox, formerly Division Engineer, location of White River Branch, Missouri Pacific Railway, and W. A. Welch, formerly Resident Engineer, P. S. & N. Ry. The other members of the locating party from the United States were Carl Geisler, N. F. McClary, Joseph Kern, F. M. Shaw and A. V. Gallogly.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

*WATER PIPE.—Portland, Ore.—Bids were opened Nov. 27 by the Water Board, D. D. Clarke, Engr., for furnishing pipe and specials, the contract being let to U. S. CAST IRON PIPE & FOUNDRY CO., Chicago, Ill., at the following bid: 4,195 tons cast iron pipe, $35.75; 166,000 lbs. of specials, $0.03. R. D. Wood & Co., Philadelphia, Pa., offered the following bid for furnishing pipe: 2,060 tons cast iron pipe, $35.65; 2,135 tons cast iron pipe, $36.15; 166,000 lbs. specials, $0.03. For the manufacture and laying of riveted steel pipe, the Risdon Iron & Locomotive Works, San Francisco, Cal., offered the following bid: 31,600 lin. ft. 24-in. steel riveted pipes, $3.90; 65 manholes, $16.50; 9 blow offs, $11; 6 air valves, $11; 64 saddles for crosses and tees, $10; 400 lin. ft. 24-in curved pipe, $3.85; 2,000 lin. ft. 6-in blow offs, $0.49; 50 cu yds. concrete foundation, $6; 2 acres clearing and grubbing, $40; 30,000 cu. yds. earth excavation and refill, $0.36.

SEWER SYSTEM. — Chicago, Ill. — Bids were opened Dec. 5, by Board Local Improvements, C. D. Hill, Engr., for construction of 95th St. system of sewers, including pumping station building and machinery. The original estimate for the work was $745,000. The bids received were as follows, the figures given below being the price bid per lin. ft.: (1) Lorimer & Gallagher Co., Chicago, (2) Union Paving Co., (3) R. F. Conway Co., Chicago, (4) Nash Bros., 84 La Salle St., Chicago:

RIPRAP STONE.—Washington, D. C.—Following bids were received Dec. 4 by Lt. Col. R. L. Hoxie, U. S. Engrs., for riprap stone, to be delivered at Carter's Creek, Virginia: Richard Parott, 51 Overbrook Pl., Newburg, N. Y., $3.90 per cu. yd.; Charles T. Smith & Son (Potomac Stone Co.), 3218 K St., N. W., Washington, D. C., $2.48 per cu. yd., measured on flat scows; Ovan Owen, Weems, Va., $3.20 per cu. yd.

Bids Received at Chicago, Ill., December 5, 1905, by Board Local Improvement, for Construction of 95th Street System of Sewers, including Pumping Station Building and Machinery.

Items.	Approx. length in ft.	Internal diam. in ft.	Average depth in ft.	(1)	(2)	(3)	(4)
Cast-iron discharge pipes	2,500	5	5	$27.00	$23.40	$30.00	$25.00
Suction infall sewer	75	4	28	29.00	22.00	9.10	25.00
2 suction infall sewers	150	5	28	29.00	22.00	11.70	30.00
95th street	500	10½	24	23.00	22.00	20.80	21.00
" "	370	9	22	19.25	20.00	17.05	16.10
Commercial Avenue	660	9	22	20.25	20.00	20.04	16.10
Anthony Avenue	2,650	9	22	18.50	20.00	17.05	16.10
" "	1,240	8½	17.5	17.00	18.00	15.95	14.75
90th street	6,520	8½	17.5	16.45	18.00	15.95	14.75
" "	5,300	8	17	16.00	16.40	15.82	14.00
Cottage Gr. avenue	1,340	3	15	5.50	5.75	5.00	5.50
" " "	660	5½	17.5	8.75	9.00	9.12	9.00
" " "	3,330	6	18.5	9.40	9.75	9.62	9.75
95th street	3,990	5½	20	9.50	9.50	9.32	9.85
" "	2,330	5	19	8.50	8.50	7.85	8.00
" "	1,670	4½	16.5	7.50	7.00	6.70	6.80
" "	1,330	4	16	7.00	6.50	5.68	6.25
Wallace street	2,000	3½	15.5	6.45	6.00	5.50	5.40
" "	1,330	3	14	5.45	5.60	5.00	5.00
89th street	2,660	5	15.5	8.00	8.25	7.00	7.50
" "	1,330	4½	14	7.25	6.80	6.30	6.00
Marquette avenue	595	3½	14.5	7.50	6.00	7.32	5.48
South Chicago avenue	1,400	3½	14.5	6.25	6.00	6.02	5.48
Saginaw avenue	250	3	12.5	5.30	4.75	5.60	5.38
89th street	1,130	3	12.5	5.30	4.75	5.60	5.38
Houston avenue	2,660	7½	21	15.00	13.10	13.80	14.75
99th street	760	7½	22	15.25	13.25	14.12	14.75
" "	3,340	7	16.5	12.50	11.50	11.57	11.80
" "	1,330	6½	15	11.50	10.75	11.10	10.90
" "	2,200	6	13	8.75	9.00	9.18	8.90
" "	2,000	5½	13	8.50	8.75	8.80	8.60
" "	2,160	5	11.5	7.50	7.00	7.33	7.00
Exchange avenue	2,000	5½	18	9.25	9.00	9.32	9.75
Commercial avenue	750	5½	18	9.75	9.00	9.32	9.75
103rd street	2,130	5½	18	9.75	9.00	9.32	9.75
" "	990	3½	14	6.25	5.75	6.28	5.50
" "	1,340	3	11	5.10	4.50	5.20	5.00
Hoxie avenue	2,660	3½	15	6.25	6.00	6.15	5.75
107th street	2,330	3	11	5.10	4.50	5.20	5.00
Pumping station building				49,000	49,000	50,000	45,000
Pumping machinery				78,000	69,000	45,000	70,000
Totals				$939,855	$917,900	$880,880	$871,997

*DREDGING.—New Orleans, La.—Bids were opened Nov. 27 by Capt. J. F. McIndoe, U. S. Engrs., for dredging channel near west shore of Sabine Lake, Tex., the bids received being as follows: (1) Southern Dredging Co., Mobile, Ala., (2) Charles C. Ely, Savannah, Ga. (will complete in 32 months); (3) Atlantic, Gulf & Pacific Co., New York (will complete in 29 months), (4) Bowers Southern Dredging Co., Galveston, Tex. (will complete in 11 months, bid recommended for acceptance), (5) North American Dredging Co., San Francisco, Cal. (will complete in 24 months):

CIVIL SERVICE EXAMINATIONS

CEMENT TEST INSPECTOR.—New York.—Municipal Civil Service Commission, Henry Berlinger, Secy., 61 Elm St., New York, will hold an examination Jan. 4 for the position of Inspector of Cement Tests. At present there is one vacancy in the Aqueduct Commission at $1,200 per annum. Applications will be received by the Commission until 4 p. m., Dec. 27. (Advertised, Engineering News.)

Bids Received at New Orleans, La., November 27, 1905, by Capt. J. F. McIndoe, U. S. Engrs., for Dredging in Channel near West Shore of Sabine Lake, Tex.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)
Dredging	2,923,000 cu. yds.	$0.10½	$0.15	$0.0998	$0.08	$0.1474
Revetment	5,200 lin ft.	20.00	18.20	9.60	9.20	12.00
Totals		$410,915	$507,090	$341,635	$281,680	$493,250

WATER MAINS.—New York, N. Y.—Following bids were received Nov. 29 by John T. Oakley, Comr. Water Supply Gas and Electricity, for furnishing, delivering and laying water mains in several streets of Boroughs of Manhattan and the Bronx: (1) Louis D. Gregory, 125th St. and 1st Ave., New York, (2) Clinton Beckwith, 49 W. 27th St., New York, (3) Wilton Construction Co., 115 Elliott Ave., Williamsbridge, New York, (4) Jno. Cornwell, 69 E. 127th St., New York, (5) M. O'Brien, 1909 Amsterdam Ave., New York, (6) M. D'Ambra Co., 205th St. and Villa Ave., New York:

DRAFTSMAN, CHEMIST, ETC.—U. S. Civil Service Commission, Washington, D. C., has announced the following examinations: Topographic draftsman in the Post Office Department, Jan. 3-4; physical chemist, Bureau of Weights and Measures, Manila, Philippine Islands, at $2,250 per annum, Jan. 3; local and assistant inspector of boilers in the Steamboat Inspection Service, New Orleans, La., at $1,800 per annum, Jan. 3-4; electrician at $1,000 per annum in the Quartermaster's Department at Large, Vancouver Barracks, Wash., Jan. 3.

INDUSTRIAL NOTES.

THE ENGINEERING CO. [illegible] has moved to 41 Park Row, New [illegible]

DALLETT & CO., Philadel[illegible] has moved from 201 Walnut [illegible] to 611-612 Harrison Bldg.

THOS. P. CONARD & CO., [illegible] tractors' supplies, has remov[illegible] to Rooms 609-610 Harrison Bld[illegible] offices 15th and Market Sts., Philade[illegible] W. Cor. Pa.

THE WOODRUFF CO., Ltd. [illegible] Engrs. and Archs., formerly [illegible] Robins Co., Ltd., has removed [illegible] Chambers, 34 Adelaide St., E[illegible] Toronto, Ont.

TOCH BROS., paint manufac[illegible] 468-72 West Broadway, N. Y., have re[illegible] a suite of offices in the Reed & Barton [illegible] 320 Fifth Ave., corner of 32d St. and [illegible] be located there after Nov. 27.

THE AMERICAN BRIDGE CO. [illegible] York, announces that by the completion [illegible] the American bridge plant the annual capacity [illegible] company's plants has been increased from 600,000 tons to 700,000 tons.

THE WARREN BROS. CO., of [illegible], reports that it has about 20 miles of its Bitulithic pavement laid in St. Louis. No. Lindell Boulevard has nearly 3 miles of this pavement, and Chestnut St. is also paved with it.

WM. B. SCAIFE & SONS CO., Pittsburg, Pa., has received a contract from the Pittsburg Railways Co. for a steel frame trestle and viaduct 455 ft. long, and varying from 30 to 101 ft. high, with girder-spans from 20 to 90 ft. The trestle is to be erected over Lowry's Run, near Emsworth, Pa.

GRIFFITH & WEDGE CO., of Zanesville, O., has received an order for two large stationary engines of the Ohio Corliss type, to be used in an artificial ice plant in Japan. The engines are to be 16 × 42 and 10 × 20. The sale was negotiated through H. O. Fulkerson, Asst. Business Mgr. of the company.

THE SULLIVAN MACHINERY CO., Chicago, announces that its St. Louis office, P. F. Jarvis, Engr., has moved into larger quarters, in order to give better attention to the increasing business of the district, for which this office is headquarters. The new address is Rooms 1125-A to 1127 Missouri Trust Bldg.

THE HEWITT-CARSTARPHEN CO., 221 McPhee Bldg., Denver, Colo., announces that it has been established to equip and manage all classes of engineering, especially in the line of metallurgical and mill constructions, mine management and surveillance, civil and hydraulic engineering and electric installations, as applied to modern mine equipment and development.

THE BALANCED CABLE CRANE CO., 44 Court St., Brooklyn, N. Y., has acquired the W. F. Brothers patented cableway, together with his good will, for the United States and Canada. The officers of The Balanced Cable Crant Co. are as follows: Wm. F. Donovan, Pres.; Frank D. Creamer, Treas.; Wm. A. Rowan, Secy.; and Thos. Hiler, Supt. and Engr.

THE ROBINS CONVEYING BELT CO., N. Y., has recently secured the contract from John R. White & Son, Providence, R. I., covering hoisting machinery, belt conveyors and cable railroads. Among the other work now being completed by the Robins company is the manufacture of belt conveyors for the Blaisdell Co., of Los Angeles, and for the Carvin Mines of France.

THE BELMONT IRON WORKS, Philadelphia, announces that its new shops at Eddystone are now in successful operation, and that it can handle structural material for bridges and buildings of all kinds up to 25-ton pieces. It also carries a large stock of plates and shapes. The new plant is equipped for all classes of structural steel for railroad and highway bridges and buildings. The equipment is entirely new, and up to date, and the Eddystone works have a capacity of over 1,000 tons per month. Together with its Philadelphia shops which will be continued in active operation, the company's capacity is 2,000 tons of structural steel per month.

BIDS RECEIVED AT NEW YORK, NOVEMBER 29, 1905, BY JOHN T. OAKLEY, COMR. WATER SUPPLY GAS AND ELECTRICITY, FOR FURNISHING, DELIVERING AND LAYING WATER MAINS IN SEVERAL STREETS, BOROUGHS OF MANHATTAN AND THE BRONX.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)
Straight pipe	1,170 tons	$33.00	$33.00	$31.25	$30.00	$31.00	$31.00
Special castings	55 "	62.00	65.00	61.50	70.00	60.00	65.00
Gate valve boxes and covers	207 "	50.00	60.00	52.20	....	60.00	55.00
Rock excavation without blasting	15 cu. yds.	6.00	7.50	.26-7/10	10.00	10.00	6.00
" "	2,250 "	2.50	3.00	.26-7/10	2.50	2.50	3.00
Masonry excavation without blasting	100 "	.01	3.00	.26-7/10	1.00	.01	.30
Earth excavation	26,000 "	.24	.27	.26-7/10	.30	.25	.30
Filling and embankment	26,550 "	.24	.25	.26-7/10	.15	.20	.05
20-in. pipe	550 lin. ft.	.50	.50	.93	.90	.50	.75
12-in. pipe, to lay	4,900 "	.30	.35	.35	.60	.25	.30
6-in. pipe	46,800 "	.12	.20	.16	.20	.16	.15
12-in. inside screw gate valves	9	50.00	50.00	42.00	80.00	55.00	45.00
6-in. " " "	309 "	16.00	17.50	19.00	40.00	25.00	20.00
Double-nozzle standard N. Y. hydrants, including 1. l. drain pipe and broken stone for trench	201	39.00	50.00	40.00	50.00	40.00	75.00
36x6-in. connection, without shutting off water	1	150.00	200.00	150.00	150.00	150.00	250.00
20x12-in. " " " " "	1	120.00	150.00	150.00	150.00	140.00	200.00
20x6-in. " " " " "	1	100.00	125.00	100.00	100.00	140.00	175.00
Brick masonry	10 cu. yds.	.01	12.50	.01	....	.01	.01
Concrete masonry	20 "	6.00	6.00	6.00	....	10.00	.01
Asphalt pavement and asphalt or artificial stone sidewalk	375 sq yds.	4.00	3.00	4.00	....	3.50	4.00
Granite block pavement on concrete foundation, and tar or gravel or cement joints	100 "	.01	.01	2.00	....	.30	.01
Macadam pavement	1,000 "	.01	.01	.40	....	.20	.01
Pavement and flagging	1,200 "	.01	.01	.01	....	.10	.05
Curb and gutter, to reset	2,000 lin. ft.	.01	.01	.01	....	.01	.01
Boxing for 6-in. pipe	120 "	7.00	5.00	3.50	5.00	5.00	5.00
Sheet piling and timber (exclusive of bed blocks and wedges) left in work by order engineer	500 ft., B.M.	.01	25.00	.01	....	no bid	30.00
Totals		$94,058	$101,183	92,488	$93,532	.....	$100,621

KEUFFEL & ESSER CO., 127 Fulton St., New York, write us that the reports in the daily press on the recent manufacturing plant convey the impression that its factory was destroyed. Fortunately, this was not the case, as the fire was confined to several annex buildings on Jefferson and Adams Sts., and has not in any way damaged the main building. No serious interruption in business is anticipated.

H. S. PALMER, of the Harmon S. Palmer Hollow Concrete Building Block Co., of Washington, D. C., states that on a recent trip he sold exclusive rights to his system in Lackawanna county, Penn., and three machines, one of the purchasers being A. T. Troutwine, of the Carbondale (Pa.) Machine Works. He also sold rights to Camden county, N. J., and two machines to George A. Aldrich, of Philadelphia.

THE WATER-WORKS EQUIPMENT CO., of 180 Broadway, New York City, has been awarded the contract by Contractor Thomas O'C. Sloane, of 76 William St., New York, for making connections to water mains. The number of connections to be made are 350—6 ins. connections off of 20 ins. and 30 ins. mains. They are to be used to locate new hydrants in the various parts of the Borough of Brooklyn, N. Y.

POWER IMPROVEMENT CO., 10th Floor, Railway Exchange, Milwaukee, Wis., was incorporated in November and took over the agency relations and business of Geo. P. Dravo, and will continue to look after the interests in the Northwest of the De Laval Steam Turbine Co. and the Foster Superheater. Associated with Mr. Dravo will be Mr. Andrew Pinkerton, of the American Sheet & Tin Plate Co. Mr. Pinkerton is a member of the Am. Inst. E. E., the Am. Electro-Chemical Soc. and the Am. Soc. M. E.

JOHN M. FARLEY, Attorney-at-Law, Trust Bldg., Memphis, Tennessee, writes us that he is taking steps to reorganize a large corporation to deal in electrical supplies and all kinds of electrical fixtures to supply the trade in the vicinity of Memphis. Mr. Farley desires to be placed in correspondence with a man of experience in the electrical field, who can control some trade and make a small investment. The corporation was organized in 1897 with $5,000 and two years later the capital was increased to $50,000.

THE AMERICAN BLOWER CO., of Detroit, is erecting a 3-story addition to its plant. The building will be of steel and brick construction. The first floor will be used for erecting and testing engines, a very complete new outfit being put in for the latter purpose. The power from engines under test will be absorbed by generators and air compressors. An electric crane will form part of the equipment in this department. The second floor will be used for storing engine parts and painting the completed engines, and the third floor will be utilized for storage purposes entirely.

THE OSWEGO BOILER WORKS, at Oswego, N. Y., has been purchased by New York parties understood to be associated with the A. D. Granger Co., the machinery house at 95 Liberty St., N. Y., with branches at Philadelphia and Pittsburg. The plant, which occupies about 20 acres on the lake front, was established some 12 years ago, and it is expected will be placed in active operation at once. Steel plate work in all branches, including boilers, tanks and stacks, will be manufactured. The new company will be known as the Oswego Boiler & Engine Co., with the main office at Oswego.

THE NORTHERN ENGINEERING WORKS, crane builders, of Detroit, Mich., have been awarded the contract for the electric cranes required in the new steel casting foundry of the Monarch Coupler Co., Ltd., of Detroit. There will be one 25-ton, 4-motor electric ladle crane, 50-ft. span, one 10-ton, 4-motor standard crane, 60-ft. span. The Northern Engineering Works have also recentely completed installing three electric traveling cranes in the plant of the Detroit Steel Casting Co., consisting of one 30-ton, 4-motor ladle crane, 70-ft. span, and two 10-ton, 3-motor electric cranes, 70-ft. span, and are now constructing for the same firm a 10-ton, 80-ft. electric gantry for yard service.

A NEW PRESSED-STEEL HAND CAR Wheel is being manufactured by the Kalamazoo Railway Co., of Kalamazoo, Mich. In this wheel the thickness of the metal is increased at the flange and fillet, where the wear is most severe. The wheels are made from discs of ¼-in. plate, shaped hot under hydraulic pressure; they are then reheated and run through a finishing machine which gathers the metal at the back of the fillet to increase the thickness by about ⅛-in. to 9/16-in. The wheel is then passed to another hydraulic press to ensure accuracy of shape and diameter; the hub and its flange are also pressed into place and riveted cold by hydraulic power. The company has been reorganized, with increased capital, and has made additions to its plant, including improved machine tools.

THE MODERN STEEL STRUCTURAL CO., of Waukesha, Wis., reports that the live stock pavilion recently erected at the Union Stock Yards, Chicago, has a seating capacity for 7,000 people. The main arches are 200 ft. from center to center of bases; approximately 1,000 tons of steel were required in its construction. The structural work was furnished by the Modern Steel Structural Co. The same company has just completed the erection of a steel coal handling bridge for the Robins Conveying Belt Co., of New York, and which was built for the Semet-Solvay Co. at their Milwaukee coke plant. The bridge, which is one of the largest structures of its kind in the world, is supported by a pivotal tower and swings around on a stiff leg in a half circle. Distance between tower and leg 380 ft. Length of bridge, including cantilevers, 500 ft.

THE IOLA PORTLAND CEMENT CO., of Iola, Kan., has recently placed an order with the Westinghouse Machine Co., of East Pittsburg, for three 500 HP. horizontal double-acting gas engines and one 125 HP. vertical single-acting gas engine to increase the capacity of their gas power plant. The three horizontal gas engines now on order will be the first of this type to be installed in the power-house, the remainder being of the vertical type. After the installation of the engines now on order, the power equipment will comprise 15 engines of the Westinghouse vertical single-acting type and three of the horizontal double-acting type, aggregating about 4,500 HP. The company operates its plant upon Kansas natural gas fuel and is one of the largest users of gas power in the cement manufacturing field. The engines are used to operate various classes of machinery, such as rock crushers, rotary kilns, line shafting and generators for supplying power and light throughout the works. The machinery is in general arranged in groups upon sections of counter shafting driven by a single engine either direct connected or rope driven.

THE BURY COMPRESSOR CO., of Erie, Pa., reports among recent orders the following: Ball Engine Co., Erie, Pa., 250 ft. machine; Parish & Bingham Co., Cleveland, O., 135 ft. machine; Erie City Iron Works, Erie, Pa., air end of 1,670 ft. machine; American Steel & Wire Co., Cleveland, O., 850 ft. machine; E. W. Bliss Co., Brooklyn, N. Y., 250 ft. machine; Edw. E. Rieck Co., Pittsburg, Pa., 450 ft. machine; Macbeth Evans Glass Co., The Elwood, Ind., plant, 835 ft. machine; Morgan Engineering Co., Alliance, O., 350 ft. machine. Foreign business also keeps up, among one of their recent foreign orders being one for Japan of 135 ft. capacity, motor driven, Westinghouse alternating motor.

CROCKER-WHEELER CO., manufacturers and electrical engineers, announce the establishment of an industrial engineering department, in which is concentrated all their work in the line of industrial engineering as applied to railway shops, machine shops, and industrial plants of every description. Among those who have availed themselves of the services of Crocker-Wheeler Co. in this line are the Lake Shore & Michigan Southern R. R., John Simmons Co., Bucyrus Co., Ansonia Brass & Copper Co., American Bridge Co., Pittsburg & Lake Erie Rd., Joseph Dixon Crucible Co., Ingersoll-Sergeant Drill Co., etc. J. R. Warner, Davenport, E. E., formerly a consulting engineer making a specialty of industrial work, has become associated wit hthe company in order that its growing activities along these lines may be handled in as thorough and satisfactory manner as heretofore. Mr. Davenport and his staff of assistants are at the present time giving personal attention to several important industrial propositions.

THE SULLIVAN MACHINERY CO., Chicago, Ill., reports that the interests controlling the Bedford Quarries Co., of Bedford, Ind., and the Ohio Quarries Co., of North Amherst, O., with head offices at Chicago, are planning to largely increase the output of their limestone and sandstone properties at the above points. The new equipment required at the quarries next year will include 18 Sullivan stone channeling machines, which have just been ordered through Mr. Geo. D. Hunter, the representative of the Sullivan Machinery Co., at Bloomington, Ind. These machines are of the class "Y" rigid head type, with boiler. The Bedford Quarries Co. already has 10 machines of this type in use, while the Ohio Quarries Co. has eight similar machines, especially adapted for cutting sandstone at its North Amherst quarries. The Consolidated Stone Co. has also ordered four of the new class "Y" Sullivan Oolitic type channelers with 8-in. cylinders, for use at its quarries at Bloomington and Bedford. This company will then have 21 Sullivan machines at these two properties. The New York office of the Sullivan Machinery Co. has also secured from F. A. Maselli & Co. an order for two class Y-8 channelers and several rock drills, for use at Rochester, N. Y., on the Erie Canal improvements.

THE TAYLOR IRON & STEEL CO., Highbridge, N. J., has made several changes among officers of the company. Mr. Lewis H. Taylor has resigned as president, and was succeeded by Mr. Robt. E. Jennings, of Jersey City, who has been Vice-President of this company since it was organized in 1891. Mr. Percival Chrystie was elected vice-president to succeed Mr. Jennings. Mr. Knox Taylor was elected general manager. The officers at present are as follows: President, Robert E. Jennings; vice-presidents, Percival Chrystie and Dr. Henry M. Howe; secretary and treasurer, T. F. Budlong; general manager, Knox Taylor. Mr. Lewis H. Taylor has been president and director of the Taylor Iron Works and the Taylor Iron & Steel Co. since the former company was organized in May, 1868. For several years he has been anxious to relinquish the presidency, but the directors were unwilling to have him do so until the present time, when Mr. Taylor insisted that his age was such that he should be relieved of all care and anxiety in business matters. In accepting Mr. Taylor's resignation the board unanimously elected him honorary president. Mr. Robt. E. Jennings has been well known in iron and steel circles for many years, having been formerly connected with the Spaulding & Jennings Co., of Jersey City, later with the Crucible Steel Co. of Am., and still later as Receiver of the Carpenter Steel Co., of Reading. Upon reorganization of the latter company some months ago, Mr. Jennings was elected its president, which office he now holds. Mr. Percival Chrystie has been connected with the Taylor Iron Works and the Taylor Iron & Steel Co. in various capacities since 1887, and Mr. Knox Taylor has been with the company for the past four years. Mr. Chrystie and Mr. Knox Taylor make the fifth generation of the Taylor family who have been interested in the manufacture of iron and steel in Hunterdon county.

MR. L. W. POST, vice-Pres. and Gen. Mgr., Blackmer & Post Pipe Co., St. Louis, Mo., writes us as follows: After several months of preliminary work, locating deposits of clay and experimenting to ascertain its properties, all of which has now been determined satisfactorily, it has been decided by the principal stockholders of the Blackmer & Post Pipe Co., of St. Louis, to organize the Post Pipe Co. under the laws of the State of Texas, with a capital of $125,000 fully paid, and to build, equip and operate a sewer pipe manufacturing plant at Texarkana. The raw material, which an extended series of experiments has demonstrated to be of superior quality and especially adapted to the manufacture of vitrified clay products, particularly sewer pipe, will be taken from the company's own property about four miles from Texarkana, adjacent to the Iron Mountain R. R. The factory will be located on 7½ acres of ground in the western part of the city, and will be directly connected by switches with the Texas & Pacific, Iron Mountain, Kansas City Southern, and the Cotton Belt Railroads, thus giving unusual facilities for distribution of the product of the plant. The improvements to be erected will be a main factory building of brick, 80 × 252 ft., 3 stories, with brick annex 40 × 100 ft. for engine, boilers and heavy clay-grinding machinery, and eight 32-ft. down-draft kilns of the most approved construction. The fuel to be used will be oil, which, at Texarkana, combines simplicity of operation and minimum cost. About $110,000 will be expended in the purchase of ground and in the construction and equipment of the plant. The officers of the Post Pipe Co. will be L. W. Post, President; L. R. Blackmer, vice-President; J. T. Wallace, 2d vice-President; G. R. Payne, Secy. and Treas., and M. P. Post, Superintendent. While this company will be owned and controlled by the principal owners and officers of the St. Louis company, its operation and management will be entirely independent. It is the intention of Mr. L. W. Post to take up his residence in Texarkana, and to give his personal attention to the construction and equipment of the plant, and to the operation of the company's business. About 60 men will be given permanent employment at the factory and office. It is expected that the plant will be in full operation about April 1, 1906.

BOWRING & CO., Exporters, 17 State St., N. Y., send us the following statement:—"Recognizing the great opportunities for trade in the Far East, we some time ago sent Mr. E. R. Duer, the head of our Export and Import Commission Department to the Orient to make first hand investigations and establish business connections as he deemed advisable for us in that field. Mr. Duer was in Japan before the war closed and was able to put himself in very close touch with the leading individuals and firms carrying on business in that country. After a thorough investigation he arranged with Messrs. Cornes & Co., one of the oldest English houses in Japan, having establishments in both Yokohama and Kobe, to act as our Japanese representatives. We, at the same time, caring for their interests in this market. Messrs. Cornes & Co. have an office in London, and are the Japanese correspondents of such firms as J. P. Morgan & Co., Lloyds of London, the Lancashire Insurance Co., the Drexels of Philadelphia, etc. They are in touch with the highest officials of the Japanese Government and often have means of obtaining advance information of intended movements. Messrs. Cornes & Co. also maintain fully equipped engineering and electrical departments, both of which are under the supervision of competent engineers. Since making the arrangements above referred to we have succeeded in obtaining several agencies for them from American manufacturers. We also have specifications in hand and in fact have gotten prices on various machinery and appliances required for the remodeling of the Imperial Japanese Naval Arsenals. Many firms have furnished us with literature and other information in regard to their products which we have forwarded to Messrs. Cornes & Co., for them to use in their work. We have other negotiations under way and hope soon to arrange for a full line of Japanese agencies for American manufacturers of engineering and electrical apparatus and supplies. According to the latest advices, our representative Mr. Duer was last in China, after covering this field he will visit the Philippines and possibly Australia, where we are represented by Robert Little & Co., of Sydney. We might also mention the fact that we have an agency in Buenos Aires, Argentine Republic, where we are constantly shipping a considerable amount of American made goods."

THE NATIONAL WOOD PIPE CO., Los Angeles, Cal., has just completed a line of 91-in. continuous stave pipe for the flour mills at Pendleton, Ore. This pipe is made from 3 × 6 fir staves banded with ¾-in. round steel rods which are held in place with malleable iron shoes. The ends of staves are connected with the Wheeler patent oak tongues. This pipe carries the water which operates the Pendleton Roller Mills. A 54-in. continuous stave pipe line has just been completed at Dayton, Wash., for the Dayton Electric Co. This pipe is constructed of 2 × 6 fir staves banded with ½-in. round steel rods held in place by malleable shoes, Wheeler patent oak tongues being used for connecting the ends of staves. This pipe line is used for developing electric power. The company has completed a line of 48-in. continuous stave pipe for Fuller & Brooke, Reno, Nev. This pipe line supplies water for irrigation and electric power development. The pipe is constructed from 2 × 6 redwood staves banded with ½-in. round steel rods held in place by malleable iron shoes, the ends of staves being connected with Wheeler patent oak tongues. A carload of 6-in. machine banded Redwood water pipe has just been shipped from San Francisco to the Jubilee Gold Co., Johannesburg, S. Africa. This shipment was made by rail via N. Y. This pipe was made for pressures of 100 to 200 ft. The Oak Park Water Co., near Sacramento, Cal., has completed its system, consisting of 10 miles of pipe in sizes from 4 to 12-in. operated under a direct pumping pressure of 60 lbs. for ordinary purposes and 100 lbs. for fire purposes. The Las Vegas Land & Water Co. has just completed the installation of the water system at the new town of Las Vegas, Nev., on the line of the Salt Lake R. R. from Los Angeles to Salt Lake City, Utah. This pipe ranges in size from 4 to 18 ins. and will be operated under 60 lbs. nominal pressure and 100 lbs. fire pressure. An ample number of both single and double nozzle independent acting fire hydrants were connected with the system throughout town. All fittings furnished are cast iron and Crane's standard valves were used throughout. The pipe used is machine banded Redwood stave pipe. The Cananea Consolidated Copper Co. has just installed a mile of S-in. bored fir pipe for conveying a water supply to the concentrator at Cananea, Senora, Mex. This pipe was made by the National Wood Pipe Co., Olympia, Wash. It is bored out of a solid log in 8-ft. lengths, the bark and sap being turned off from the outside. This is then banded with 1-in. flat steel spaced according to pressure for which pipe is to be used, and the entire outer surface covered with a preservative coating of tar and sawdust.

TRADE PUBLICATIONS.

AIR LIFTS.—The Ingersoll-Sergeant Drill Co., 11 Broadway, New York City. Paper; 6 × 9 ins.; pp. 96; illustrated.

Much useful information on the air lift in general and on the Pohle and Saunders systems in particular is given in this catalogue.

WELL SCREENS.—E. E. Johnson, St. Paul, Minn. Post card; 9 × 5 ins.; illustrated.

These screens are composed of horizontal locking bar rings, shaped somewhat like the letter Z or a reversed, vertically flattened S. The horizontal joints of the outer part of the rings and holes through the upper and inner portions of the rings serve as inlets.

STEAM SPECIALTIES.—The Standard Steam Specialty Co., 542 West Broadway, New York. Various broadsides and folders.

A combined exhaust muffler, oil separator, return tank pump governor and feed water heater, and various other steam specialties are made by this company; also an exhaust heating apparatus.

HYDRAULIC ACCUMULATORS AND FITTINGS.—The Watson-Stillman Co., 46 Dey St., New York. Paper; 6 × 9 ins.; pp. not given; illustrated.

Hydraulic, hydro-pneumatic and steam hydraulic accumulators, intensifiers and various accessories are listed and described. The publishers state that this is the first catalogue of the sort ever issued.

OIL ENGINES.—De La Vergne Machine Co., Foot East 138th St., New York City. Paper; 9 × 6 ins.; pp. 74; illustrated.

The Hornsby-Akroyd oil engines made by this company are described and catalogued in unusually neat and thorough style in a recently published catalogue. Descriptions and views of illustrations, reprints of testimonials, and the like, take up nearly one-half the booklet, but of course such matter is not without its value to the readers of catalogues.

TRACK MATERIAL AND TOOLS.—Budd Foundry & Mfg. Co., Railway Exchange Building, Chicago. Folding card; 4½ × 8 ins.; illustrated.

This card contains only a brief mention of the company's specialties in switches, frogs, switchstands, hand-cars and track tools. Its striking feature is a moving semaphore signal which goes to the "stop" position as the card is unfolded.

CONVEYING MACHINERY.—Dodge Coal Storage Co., Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 56; illustrated.

The so-called "Telpherage" system of conveying or transporting, which uses electric auto-trucks running on a suspended track, is here represented by a collection of views illustrating numerous applications which have been made with the system. The text is confined to the mere statement of the subjects of the illustrations.

MOTOR INSPECTION CARS.—Fairbanks, Morse & Co., Chicago, Ill. Paper; 6 × 9 ins.; pp. 16; illustrated.

This is a descriptive catalogue of gasoline railway motor cars for track and general inspection work, and also for the use of section gangs. The former may to a large extent take the place of the engine and car ordinarily used, while the latter save much of the time and energy expended in "pumping" a hand-car over the track.

PNEUMATIC TOOLS.—Helwig Mfg. Co., St. Paul, Minn. 3 × 6 in. folder.

The Helwig pneumatic hammers are equipped with what is here called a cushioned handle, which is said to obviate the jarring felt by the operators of other hammers. They are made from 1 to 9 ins. stroke. Two non-pneumatic devices are shown in this same folder: a self-feeding tube expander and a self-disengaging clutch for such work as tapping or screwing down studs or set screws.

PUMPING MACHINERY.—Union Steam Pump Co., Battle Creek, Mich. Paper; 7 × 7¼ ins.; pp. 120; illustrated.

The Burnham pumps for boiler-feed, mine work, sinking and general purposes are described and illustrated, and are shown to be adapted to various kinds of work. Condensers, air and vacuum pumps, air compressors, and deep-well pumps are also in-

cluded. Tables of dimensions and capacities are also given, and there are a few pages of "useful information."

DRAWING TABLES AND CASES.—Economy Drawing Table Co., Toledo, O. Paper; 6 × 9 ins.; pp. 22; illustrated.

Whoever needs a drawing table, and has gotten beyond the view that prefers the production of any carpenter to a specially built table, will find some suggestive and interesting models illustrated in this pamphlet. Some filing cases for flat filing of drawings are also shown and described, with emphasis on a number of points of practical value.

STEAM BOILERS.—Parker Boiler Co., Pennsylvania Building, Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 38; illustrated.

The Parker boiler described in Engineering News some years ago has been recently developed into a double-ended boiler which is claimed to give more power for the same floor space than any type of boiler now available for the steam supply of large power plants. The Parker boiler is of the water-tube type and its design aims mainly at rapid and thorough circulation both for steam efficiency and for preventing scale deposit.

ENGINEERING SERVICE.—Industrial Engineering Co., of America, 32 Broadway, New York City. Paper; 9 × 6 ins.; pp. 21; illustrated.

The Industrial Engineering Co. makes a business of advisory and design work in many branches of mechanical engineering; shop design, machine tool work, and the like. The booklet here noted presents in brief an argument for making use of such service, and shows by views and drawings some of the past performances of members of the company.

STORAGE BATTERIES.—National Battery Co., Buffalo, N. Y. Paper; 8 × 10½ ins.; illustrated.

The National Battery Co. has been issuing recently a number of circulars and pamphlets describing individual products or installations. One of these describes the central energy system of the Frontier Telephone Co. at Buffalo, which uses National batteries. Another describes battery equalizing installations in water power generating systems. Others describe unit accumulators, car lighting batteries, sparking batteries, and the like.

CALCULATING RULES.—John Howard Herrick Co., 7 Clay St., Baltimore, Md. Paper; 8½ × 3½ ins.; pp. 16; illustrated.

A computing rule or scale for calculating loads or spacings of steel beams, a similar rule for wooden beams, and two rules for computing photographic exposures, are shown in this circular. Something of a novelty is a rule for computing the longest exposure allowable to produce clearly defined pictures of moving objects, the known quantities being speed of object in miles per hour, focal length of lens, and distance of object from camera.

GAS WORKS APPARATUS.—The Western Gas Construction Co., Fort Wayne, Ind. Paper; 8 × 10½ ins.; several bulletins, all illustrated.

These bulletins are something more than catalogues or general descriptions of apparatus, as they contain extensive technical information relative to gas manufacture and gas engineering. The purification of gas by various processes, the extraction of tar, and the recovery of ammonia are dealt with, as well as such specialties as the various kinds of valves employed. Small water-gas plants form the subject of one of these bulletins.

ELEVATORS.—Otis Elevator Co., New York, N. Y. Paper; 8 × 9 ins.; pp. 62; illustrated.

The leading place in this pamphlet is given to electric elevators, which occupy about one-half its pages. Hydraulic elevators take up the second half, except for two or three pages of clearance diagrams showing the clearances between car, car platform, and hatchway, for various arrangements of guides and counterweights. The illustrations and text in the pamphlet are general in character, showing types of elevators without entering into details.

COAL MINING AND HANDLING MACHINERY.—Jeffrey Mfg. Co., Columbus, O. Paper; 6 × 9 ins.; pp. 142; illustrated.

The specific subject of this catalogue is machinery for handling coal in mines, at breakers and tipples, and at coke ovens, etc. A large number of outline sketches of coal tipples opens the book, then come coal washers, cages, chain and cable hauls, conveyors in large number, screens both flat and cylindrical, chutes, coal crushers, cars and buckets, and finally much miscellaneous matter covering articles as diverse as pneumatic rock drills, electric mine pumps and hoists, and electric gathering locomotives. The book throughout is an album of photographs and sketches, intended to suggest designs and apparatus which the company can furnish rather than to list specific products as to size and variety.

GASOLINE MARINE ENGINES.—Standard Motor Construction Co., 172 Whiton St., Jersey City, N. J. Paper; 8 × 5½ ins.; pp. 62; illustrated.

These are vertical marine engines of the four-cycle system, with from two to six cylinders, and are reversible, the propeller shaft being coupled directly to the engine shaft. The construction is described in detail and views are given of a number of yachts and motor boats equipped with engines of 10 to 75 and 100 HP. The 100-HP. engines are used on the new motor cars of the Union Pacific Ry.

IRON AND STEEL WORKS EQUIPMENT.—Wellman-Seaver-Morgan Co., Cleveland, O. Paper; 9 × 12 ins.; pp. 80 and 32; illustrated.

Section D of the company's general catalogue on iron and steel works equipment deals wholly with charging machines and their direct accessories, such as cars and inclines, etc., serving charging machines. A large variety of forms is illustrated by very effective half-tone views, accompanied by compact text explanation. Section E, a 32-p. pamphlet, is devoted to cranes; mainly bridge cranes, but also some other forms, are illustrated.

MILLING MACHINES.—Cincinnati Milling Machine Co., Cincinnati, O. Paper; 6 × 9 ins.; pp. 100; illustrated.

As a complete catalogue of the products of a concern building exclusively milling machines, this pamphlet has special value for reference. The makers appear to have fully appreciated this, as the book is both thorough and concise. The items covered are milling machines, slotting and circular milling attachments for millers, and the essential accessories, as milling cutters and grinders. A series of speed tables for cutters of high speed steel is noted as a special item.

CONTRACTORS' DUMP WAGON, LOADING HOPPER AND CONCRETE SPREADER.—J. E. Briggs Labor Saving Specialty Co., Waterloo, Ia. Paper; 6¼ × 9½ ins.; pp. 4; also circular 6 × 13 ins., and wall hanger 12 × 18 ins.; illustrated.

The pamphlet contains testimonials from city engineers, contractors, etc., in regard to the practical merits of the company's devices. The circular is a reprint of an illustrated article describing these devices in Engineering News of Sept. 7, 1905. The large wall hanger also illustrates the same devices and sets forth their advantages, while a special construction of wagon wheel is also shown.

ROPE, SUSPENSION BRIDGES, CABLEWAYS.—John A. Roebling's Sons Co., Trenton, N. J. Paper; 6 × 9 ins.; pp. 110; illustrated.

Suspension bridges and wire-rope cableways and cable railways are not, of course, susceptible of cataloguing. They are represented in this most recent Roebling catalogue by a large number of excellent half-tone views of bridges and cableways which the company has built. Not all of the notable Roebling suspension bridges are shown, but at least the Brooklyn Bridge is represented by a fine broadside view. The subject of rope, rope fittings, etc., is treated in condensed catalogue style.

ENGINE STOP DEVICES.—The Locke Regulator Co., Salem, Mass. Paper; 9 × 6 ins.; pp. 32; illustrated.

A complete speed limit system for steam engines is described in this pamphlet, including a speed governor, an automatic throttle and a vacuum breaker. These parts are described in a general way and some installations are illustrated. Substantially similar devices to those used for engines are made for application to electric motors and rotary converters. It is well known that converters frequently operate under conditions where there is a possibility that they may race when certain abnormal electrical phenomena occur in the system.

AIR COMPRESSORS.—Laidlaw-Dunn-Gordon Co., Cincinnati, O. Paper; 6 × 9 ins.; pp. 36; illustrated.

The "Cincinnati" compressor, catalogued in this pamphlet, is fitted with the new Cincinnati gear described some months ago in Engineering News. This gear, by a combination of rotary and poppet-valves, controls the air flow positively, except for the opening of the discharge, which is left uncontrolled subject to the opening of a poppet-valve only. Compressors of many forms and sizes are shown and listed, illustrating the wide application which has been made of this gear. It is used for even the very highest pressures, such as is required for liquifying carbonic acid gas and for charging compressed air locomotives.

RECIPROCATING AND ROTARY PUMPS.—Buffalo Steam Pump Co., Buffalo, N. Y. Paper. 5 5-8 × 7 5-8 ins.; pp. 130; illustrated.

The subject of pumps is fully catalogued in this book, in two separate parts devoted respectively to steam and power (belted) pumps and to centrifugal and turbine pumps. Full tables of sizes and prices are given for most of the machines shown. The section on turbine pumps is particularly full in text discussion of the elements of design, and contains also two curve-sheets illustrating the performance of such pumps. A number of tables of useful information is given at the end of the book, and a table of code words.

STONE WORKING TOOLS.—Ingersoll-Rand Co., 11 Broadway, New York City. Paper; 6 × 9 ins.; pp. 16; illustrated.

Several types of pneumatic tool, designed particularly for stone working, are described here in more or less detail. The most interesting, perhaps, is a special design of pneumatic hammer which is valveless, that is the opening and closing of air passages is done directly by the piston. Made in four sizes, these hammers are adapted to work from very delicate carving up to heavy planing and hammering on the hardest stone. Various tools to fit these hammers are also shown. A stone surfacing machine consisting of a hammer suitably supported on a traveling truck, and a rotary stone polishing machine, are shown, together with some accessories.

MACHINISTS' TOOLS.—Brown & Sharpe Mfg. Co., Providence, R. I. Paper; 6 × 9 ins.; pp. 164; illustrated.

This is a new edition of the Brown & Sharpe Machinists' Tool catalogue. It shows, besides the regular well-known productions of the company, one or two special novelties, among which may be noted an automatic center punch, and steel tool-maker's clamps similar to the ordinary wooden pattern-maker's clamps, but, of course, smaller, some new forms of calipers and dividers, and the interesting novelty of ground flat stock (tool steel) in regular sizes from 1-16 to ¼-in. thick, 2 to 4 ins. wide and 18 ins. long, which is of best quality tool steel, annealed and ground to an accuracy of 1-1,000-in. This stock is intended to be used for making gages, jigs, special test tools, and similar appliances.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 208.

WATER-WORKS.

Osceola, Ark.

The board of Improvement for the Town of Osceola, Ark., will receive sealed bids until nine o'clock p. m., Jan. 10th, 1906, for the construction of a system of water-works in the town of Osceola. Specifications will be furnished on application. Address, BOARD OF IMPROVEMENT, Osceola, Ark. 24-1t

FILLING.

Far Rockaway, N. Y.

Estimates wanted for the filling of lands at Far Rockaway, L. I., N. Y. About 200,000 cubic yards sand to be pumped from Ocean. Plans can be seen at

ARMSTRONG & JOYNER,
24-1t 1133 Broadway, N. Y. City.

OFFICE OF THE BUILDING COMMITTEE, U. S. Department of Agriculture, Washington, D. C., December 8, 1905.—Sealed proposals will be received at this office until 2 o'clock p. m. on the 5th day of January, 1906, and then opened, for the installation of electric passenger elevators of two laboratory buildings for the United States Department of Agriculture, Washington, D. C., in accordance with the drawings and specifications, copies of which may be obtained at the office of the Building Committee, United States Department of Agriculture. All applications must be accompanied by a certified check for $50, made payable to the Disbursing Clerk of the Department of Agriculture, which checks will be retained until the return of the drawings and specifications. B. T. GALLOWAY, Chairman. 24-3t

SECOND-HAND ENGINE, DERRICK, ETC., FOR SALE.

The Boston Transit Commission, 15 Beacon Street, Boston, has the following second-hand plant for sale: 1 cubical concrete mixer; 72 elevator buckets, with belt; 1 undermounted boiler and engine; 1 boom derrick; 4 steel wheelbarrows; 70 cable clamps, etc. A descriptive circular and further particulars may be obtained by calling at the office of the Commission, 15 Beacon St., 8th floor, or will be mailed on application. The Commission will for a short time receive bids on this plant and reserves the right to reject any and all bids and to accept whichever bid it deems for the best interest of the City of Boston.

By order of the Commission.
B. LEIGHTON BEAL,
24-3t Secretary.

SEWERAGE AND WATER-WORKS.

Chihuahua, Mex.

As there is to be constructed this city, through the initiative of the Mr. Enrique C. Creel, and the approval Hon. orable State Congress, a system sewerage and hydraulic works for the and water supply of the city, by th be it known to all persons or compa wishing to furnish materials or take con for the work that they shall address th mittee on improvements, soliciting da tions and details.

The award of the work or pur of material will be based on the whole or part of the work, but in either case bids must be submitted in detail for of the following parts:

I.—Iron pipe and fittings.
II.—Vitrified clay pipe and fit
III.—Valves and their cases.
IV.—Portland cement.
V.—Lime.
VI.—Work of excavating and laying iron pipes.
VII.—Work of excavating and laying clay pipes.
VIII.—Masonry work.
IX.—Fire hydrants.
X.—Construction of stone and mortar dam cement lined according to specifications.

The interested person wishing a pamphlet containing the solicitation of bids for material and work, specifications, blanks on which to make bids, etc., can address the secretary of the committee on improvements at the Municipal Palace, Hidalgo del Parral, Chihuahua, Mexico. The plans on hand will also be at disposal. There will also be at disposal of the interested, in the office of the secretary, such plans and specifications as they may wish to consult.

Bids will be received until 4 p. m., the 15th of January, 1906. All bids will be kept sealed until that day and hour.

Plans and specifications relating to the above are at disposal of bidders in the office of the paper.

Hidalgo del Parral, November 9th, 1905.
RODOLFO VALLES,
Pres. of Board.
VICTOR ESPERON, Secretary. 24-1t

Specifications are on file at the office of Engineering News, 220 Broadway, New York.

U. S. ENGINEER OFFICE, Washington Barracks, D. C.—Sealed proposals will be received at this office until noon, January 8, 1906, and then publicly opened, for millwork, glass and glazing for Army War College building. Information on application. JOHN STEPHEN SEWELL, Capt., Engrs. 24-1t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 12, 1905.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 5th day of January, 1906, and then opened, for the low pressure steam heating apparatus complete in place, for the U. S. Post Office at Laramie, Wyoming, in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Laramie, Wyoming, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 24-2t

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., Dec. 11, 1905.—Sealed proposals will be received at this office until 12 o'clock M., January 15, 1906, to construct 9,500 feet, more or less, of trunk sewer 8′ 4″ × 9′ 4″; the same being a portion of the Sewage Disposal System Outfall Sewer in the District of Columbia. Specifications and forms of proposal may be obtained at this office. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 24-2t

SITUATIONS OPEN

ARCHITECTURAL DRAFTSMAN WANTED.—One who has had experience in the designing of station buildings, shops, etc. Apply by letter, stating experience, reference and salary expected. "CHIEF DRAFTSMAN," 85 Clinton St., Brooklyn, N. Y. 24-2t

FOR SALE

1200-Light Electric Plant

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